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LANCASTER COUNTY
CLERK

BEFORE THE BOARD OF COUNTY COMMISSIONERS
OF LANCASTER COUNTY, NEBRASKA

IN THE MATTER OF ADOPTING)
THE 2009 EDITION OF THE)
INTERNATIONAL RESIDENTIAL CODE)

RESOLUTION NO.

R-12-007

WHEREAS, Lancaster County, Nebraska, (the "County"), may adopt construction codes by virtue of Neb. Rev. Stat. § 23-172 (Reissue 2007), as amended, which are applicable throughout all of the County except within the jurisdiction of any incorporated city or village, and except within an unincorporated area where a city or village has been granted zoning jurisdiction and is exercising such jurisdiction; and

WHEREAS, the County, pursuant to the Interlocal Cooperation Act, Neb. Rev. Stat. § 13-801 *et seq.* (Reissue 2007), has entered into an agreement with the City of Lincoln (the "City"), providing for enforcement of the County construction codes by the City Codes Administration; and

WHEREAS, one of the provisions of said agreement requires that the County adopt construction codes which have been adopted by the City, in order to provide a uniform code for permit and inspection purposes; and

WHEREAS, the City adopted the International Residential Code, 2009 Edition, with certain amendments thereto; and

WHEREAS, on March 6, 2012, the Lancaster County Board of Commissioners conducted a public hearing regarding adoption of such construction codes; and

WHEREAS, pursuant to Neb. Rev. Stat. § 23-172, the adoption of any standard code by reference shall be construed to incorporate such amendments thereof as may be made if the copy of such standard code is kept current in the office of the County Clerk.

NOW, THEREFORE, BE IT RESOLVED, by the Board of County Commissioners of Lancaster County that the International Residential Code (2009 Edition), adopted by the City and attached hereto as Exhibit "A", including any amendments thereto, is incorporated in full by this reference and is hereby adopted for use in the County.


BE IT FURTHER RESOLVED that a copy of said Code described herein, be placed on file in the Office of the County Clerk pursuant to Neb. Rev. Stat. § 23-172.

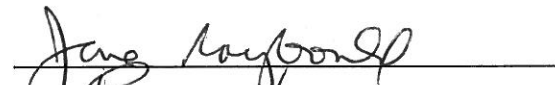


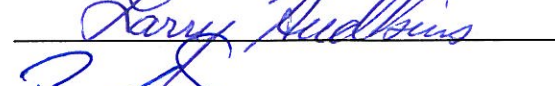

BE IT FURTHER RESOLVED that this Resolution hereby replaces and rescinds County Resolution No. 10-0053 and any previously existing Residential Code.

DATED this 10 day of March, 2012, at the County-City Building, Lincoln, Lancaster County Nebraska.

BY THE BOARD OF COUNTY
COMMISSIONERS OF LANCASTER
COUNTY, NEBRASKA

APPROVED AS TO FORM
this 10 day of
March, 2012.


for JOE KELLY
Lancaster County Attorney

LINCOLN RESIDENTIAL BUILDING CODE

Sections:

20.12.010	Adoption of 2009 International Residential Code.
20.12.015	Section R101 Amended; Title, Scope and Purpose.
20.12.020	Section R102.1 Amended; Applicability; General.
20.12.025	Section R103 Amended; Department of Building and Safety.
20.12.030	Section R105.2 Amended; Work Exempt From Permit.
20.12.035	Section R105.3.1.1 Amended; Determination of Substantially Improved or Substantially Damaged Existing Buildings in Flood Hazard Areas.
20.12.040	Section R105.4.1 Added; Orders Not Stayed.
20.12.045	Section R105.5 Amended; Expiration.
20.12.050	Section R106.2 Amended; Site Plan or Plot Plan.
20.12.055	Section R107 and Subsections, Temporary Structures and Uses; Deleted.
20.12.060	Section R108 Amended; Fees.
20.12.065	Section R109 Section Heading Amended; Inspections and Surveys.
20.12.070	Section R109.1 Amended; Types of Inspections.
20.12.075	Section R109.1.2 Amended; Setback Verification.
20.12.080	Section R109.1.4 Amended; Frame Inspection.
20.12.085	Section R109.1.7 Added; Reinspections.
20.12.090	Section R109.5 Added; Address Identification.
20.12.095	Section R110 Amended; Certificate of Occupancy.
20.12.100	Section R111 Deleted; Service Utilities.
20.12.105	Section R112 Amended; Board of Appeals.
20.12.110	Section R113.3 Amended; Prosecution of Violation.
20.12.115	Section R113.4 Amended; Violation Penalties.
20.12.120	Section R114 Amended; Stop Work Order.
20.12.125	Section R115 Added; Demolition of Buildings.
20.12.130	Section R202 Amended; Definitions.
20.12.135	Section R301.2.4 Amended; Flood Plain Construction.
20.12.140	Table No. R301.2(1) Amended; Climatic and Geographic Design Criteria.
20.12.145	Table R301.5 Amended; Minimum Uniformly Distributed Live Loads.
20.12.150	Table R301.7 Amended; Allowable Deflection of Structural Members.
20.12.155	Section R302.1 Amended; Exterior Walls.
20.12.160	Table R302.1 Amended; Exterior Walls.
20.12.165	Section R302.2 Amended; Townhouses.

20.12.170	Figure R302.2 (1) Added; Typical Party Wall Section; Two 1 Hour Walls.
20.12.175	Figure R302.2 (2) Added; Typical Party Wall Section; 2 Hour Non Bearing Wall With Parallel Bearing Walls.
20.12.180	Figure R302.2 (3) Added; Typical Party Wall Section; One 2 Hour Shaft Wall.
20.12.185	Figure R302.2 (4) Added; Typical Party Wall Section; Single 2 Hour Walls.
20.12.190	Section R302.2.2 Amended; Parapets.
20.12.195	Section R302.2.4 Exception 5 Deleted; Structural Independence.
20.12.200	Section R302.3 Amended; Two-family Dwellings.
20.12.205	Section R302.5.2 Deleted; Duct Penetration.
20.12.210	Section R302.6 Amended; Separation Required.
20.12.215	Table R302.6 Amended; Dwelling/Garage Fire Separation.
20.12.220	Section R302.12 Amended; Draftstopping.
20.12.225	Section R303.1 Exception 2 Amended; Habitable Rooms.
20.12.230	Section R303.3 Amended; Bathrooms.
20.12.235	Sections R303.4, R303.4.1 and R303.4.2 Deleted; Opening Location.
20.12.240	Section R303.5 Deleted; Outside Opening Protection.
20.12.245	Section R305 Amended; Ceiling Heights.
20.12.250	Section R306.2 Amended; Kitchen.
20.12.255	Figure R307.1 Amended; Minimum Fixture Clearances.
20.12.260	Section R307.3 Added; Access to Whirlpool Pump.
20.12.265	Section R309.3 Amended; Garages and Carports; Flood Hazard Areas.
20.12.270	Section R309.5 Added; Headroom Clearance.
20.12.275	Section R310.1 Amended; Emergency Escape and Rescue Required.
20.12.280	Section R310.1.1 Exception Deleted; Minimum Opening.
20.12.285	Section R310.1.5 Added; Double Hung Egress Window.
20.12.290	Section R310.3 Amended; Bulkhead Enclosures.
20.12.300	Section R311.3.2 Amended; Floor Elevations for Other Exterior Doors.
20.12.305	Section R311.7 Amended; Stairways.
20.12.310	Section R312 Amended; Guards.
20.12.315	Section R313 Deleted; Automatic Fire Sprinkler Systems.
20.12.320	Section R314.3 Amended; Single- and Multiple-Station Smoke Alarms.
20.12.325	Section R314.4 Amended; Smoke Alarms; Power Source.
20.12.330	Section R315 Amended; Carbon Monoxide Alarms.
20.12.335	Section 317.1 Amended; Protection of Wood and Wood Based Products Against Decay; Location Required.
20.12.340	Section R317.1.2 Deleted; Ground Contact.
20.12.345	Section R317.1.4 Amended; Wood Columns.
20.12.350	Section R319 Amended; Premises Identification.
20.12.355	Section R320 Deleted; Accessibility.
20.12.360	Section R322 Deleted; Flood-Resistant Construction.
20.12.365	Section R401.3 Amended; Foundations; Drainage.

20.12.370	Table R401.4.1 Amended; Load Bearing Values.
20.12.375	Section R403.1 Amended; Footings; General.
20.12.380	Section R403.1.1 Amended; Minimum Footing Sizes.
20.12.385	Table R403.1 Amended; Minimum Width of Footings.
20.12.390	Figure R403.1(1) Amended; Minimum Footing Reinforcement.
20.12.395	Section R403.1.3.2 Amended; Slabs-on-Ground with Turned-Down Footings.
20.12.400	Section R403.1.4.1 Amended; Frost Protection.
20.12.405	Section R403.1.6 Amended; Foundation Anchorage.
20.12.410	Section R403.1.7.3 Amended; Foundation Elevation.
20.12.415	Section R403.3 and Subsections, Tables and Figures Deleted; Frost Protected Shallow Foundations.
20.12.420	Section R403.4 Amended; Footings for Precast Concrete Foundations.:
20.12.425	Section R403.4.1 Deleted; Crushed Stone Footings.
20.12.430	Table R403.4 Deleted; Minimum Depth of Crushed Stone Footings.
20.12.435	Table R404.1.1(1) Deleted; Plain Masonry Foundation Walls.
20.12.440	Figure R404.1.1(3) Added; Permanent Masonry Foundation Basement Wall Section.
20.12.445	Table R404.1.2 (1) Deleted; Minimum Horizontal Reinforcement for Concrete Basement Walls.
20.12.450	Table R404.1.2(2) Deleted; Minimum Vertical Reinforcement for 6-inch Nominal Flat Concrete Basement Walls.
20.12.455	Table R404.1.2(3) Deleted; Minimum Vertical Reinforcement for 8-inch Nominal Flat Concrete Basement Walls.
20.12.460	Table R404.1.2(4) Deleted; Minimum Vertical Reinforcement for 10-inch Nominal Flat Concrete Basement Walls.
20.12.465	Table R404.1.2(8) Deleted; Minimum Vertical Reinforcement for 6-, 8-, 10-inch and 12-inch Nominal Flat Basement Walls.
20.12.470	Table 404.1.2 (9) Deleted; Minimum Spacing for Alternate Bar Size and/or Alternate Grade of Steel.
20.12.475	Section R404.1.2.2 Amended; Reinforcement for Foundation Walls.
20.12.480	Figures R404.1.2.2(1) through R404.1.2.2(9) Added; Reinforcement for Foundation Walls.
20.12.485	Figure R404.1.2.2.1 Added; Deadman/4 foot Concrete Wall.
20.12.490	Section 404.1.5.2 Amended; Concrete Wall Thickness.
20.12.495	Figure 404.1.5.2 Added; Garage Stub Wall Foundation Detail.
20.12.500	Section R408.7 Deleted; Flood Resistance.
20.12.505	Section R502.2.3 Amended; Deck Lateral Load Connection.
20.12.510	Section R502.3 Amended; Allowable Joist Spans.
20.12.515	Section R502.7 Amended; Lateral Restraint at Supports.
20.12.520	Section R502.10 Amended; Framing of Openings.
20.12.525	Section R601.3 Amended; Vapor Retarders.
20.12.530	Figure R602.10.3.5 Added; Alternate Braced Wall Panel at Garage Door Openings.

- 20.12.535 Figure R602.10.4 Added; Braced Walls Using Continuous OSB Sheathing.
- 20.12.540 Section R703.1 Amended; Exterior Covering; General.
- 20.12.545 Section R703.2 Amended; Water Resistive Barrier.
- 20.12.550 Section R703.6.3 Amended; Water-Resistive Barriers.
- 20.12.555 Table R703.7.3.1 Deleted; Allowable Spans for Lintels Supporting Masonry Veneer.
- 20.12.560 Section R703.7.3 Deleted; Lintels.
- 20.12.565 Section R703.7.4 Amended; Anchorage.
- 20.12.570 Section R703.7.4.2 Deleted; Air Space.
- 20.12.575 Figure R703.7 Deleted; Masonry Veneer Wall Details.
- 20.12.580 R703.7.5 Amended; Flashing.
- 20.12.585 Section R703.7.6 Amended; Weepholes.
- 20.12.590 Section R703.8 Amended; Flashing.
- 20.12.595 Section R703.9.2.1 Amended; Water-Resistive Barrier.
- 20.12.600 Section R703.9.2.2 Amended; Installation.
- 20.12.605 Section R703.12.1 Added; Water-Resistive Barrier; Adhered Masonry Veneer.
- 20.12.610 Section R802.3 Amended; Framing Details.
- 20.12.620 Section R905.2.7.1 Amended; Ice Barrier.
- 20.12.625 Section R907.3 Amended; Reroofing; Recovering Versus Replacement.
- 20.12.630 Section R1003.11 Deleted; Masonry Chimneys; Flue Lining (Material).
- 20.12.635 Section R1003.11.2 Deleted; Flue Linings for Specific Appliances.
- 20.12.640 Section R1003.11.3 Deleted; Gas Appliances.
- 20.12.645 Section R1003.11.4 Amended; Pellet Fuel-Burning Appliances.
- 20.12.650 Section R1003.11.5 Deleted. Oil-fired Appliances.
- 20.12.655 Section R1003.14 Deleted; Flue Area (Appliance).
- 20.12.660 Section R1004.4 Deleted; Unvented Gas Log Heaters.
- 20.12.665 Chapter 11 Amended; Energy Code.
- 20.12.670 Chapters 19 through 22 and 24 through 42 of the International Residential Code Deleted.

20.12.010 Adoption of 2009 International Residential Code.

Except as hereinafter provided by specific amendment, the following publications are hereby adopted and incorporated into Title 20 of the Lincoln Municipal Code:

- (a) International Residential Code for one- and two-family dwellings, 2009 Edition, first printing, hereinafter referred to as the International Residential Code; and
- (b) Elevated Residential Structures F.E.M.A. Publication No. 54, dated March 1984, published by U.S. Government Printing Office: 2002-717-395/96287. This document is adopted for reference to design standards and techniques only, as set forth in Chapters 27.52 and 27.53 of the Lincoln Municipal Code.

One printed copy of the above publications have been filed in the office of the City Clerk for use of and examination by the public. (Ord. 19674 §1; February 13, 2012).

20.12.015 Section R101 Amended; Title, Scope and Purpose.

Section R101 of the International Residential Code is amended to read as follows:

R101.1 Title. These provisions shall be known as the Residential Code for One- and Two-Family Dwellings of the City of Lincoln, Lancaster County, Nebraska, and shall be cited as such and will be referred to herein as “this code.”

R101.2 Scope. The provisions of the *International Residential Code for One- and Two-Family Dwellings* shall apply to the construction, alteration, movement, enlargement, replacement, repair, equipment, use and occupancy, location, removal and demolition of detached one- and two-family dwellings and multiple single-family dwellings (townhouses) not more than three stories above grade in height with a separate means of egress and their accessory structures within the city or within three miles of the corporate limits of the city and outside of any other organized city or village not more than three stories in height with a separate means of egress and their accessory structures.

R101.3 Purpose. The purpose of this code is to provide minimum standards to safeguard life or limb, health, property, and public welfare by regulating and controlling the design, construction, quality of materials, use and occupancy, location, and maintenance of all buildings and structures within the city and within three miles of the corporate limits of the city and outside of any other organized city or village, and regulating certain equipment specified herein.

The purpose of this code is not to create or otherwise establish or designate any particular case or group of persons who will or should be especially protected or benefitted by the terms of this code. (Ord. 19674 §2; February 13, 2012).

20.12.020 Section R102.1 Amended; Applicability; General.

Section R102.1 of the International Residential Code is amended to read as follows:

R102.1 General. Where, in any specific case, different sections of this code specify different materials, methods of construction or other requirements, the most restrictive shall govern. Where there is a conflict between a general requirement and a specific requirement, the specific requirement shall be applicable. Where there is a conflict between the International Residential Code, as adopted or amended, any other section of the Lincoln Municipal Code, or recommendation or requirement from a manufacturer, the most restrictive shall govern. (Ord. 19674 §3; February 13, 2012).

20.12.025 Section R103 Amended; Department of Building and Safety.

Section R103 of the International Residential Code is amended to read as follows:

SECTION R103

DEPARTMENT OF BUILDING AND SAFETY

R103.1 Building official designated. The Department of Building and Safety is hereinafter designated as the building department under the jurisdiction of the Director of Building and Safety, who is hereinafter designated as the Building Official.

R103.2 Appointment. The Building Official shall be appointed by the Mayor.

R103.3 Deputies. In accordance with the prescribed procedures of the City of Lincoln and with the concurrence of the Mayor, the Building Official shall have the authority to appoint a deputy

building official, the related technical officers, inspectors, plan examiners and other employees. Such employees shall have powers under this code as delegated by the Building Official. (Ord. 19674 §4; February 13, 2012).

20.12.030 Section R105.2 Amended; Work Exempt From Permit.

Section R105.2 of the International Residential Code is amended to read as follows:

R105.2 Work exempt from permit. Permits shall not be required for the following. Exemption from the permit requirements of this code shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other laws or ordinances of this jurisdiction.

Building:

1. Fences not over 6 feet 4 inches high.
2. Retaining walls that are not over 4 feet in height measured from the bottom of the footing to the top of the wall, unless supporting a surcharge.
3. Water tanks supported directly upon grade if the capacity does not exceed 5,000 gallons and the ratio of height to diameter or width does not exceed 2 to 1.

4. Shingling and residing.
5. Painting, papering, tiling, carpeting, cabinets, counter tops and similar finish work.
6. Prefabricated, temporary, softside swimming pools that have a depth of 48 inches or less. Swimming pools are further regulated by Lincoln Municipal Code Chapters 8.36 and 8.38.

7. Swings and other playground equipment accessory to a one- or two-family dwelling.
8. Window awnings supported by an exterior wall. This exemption does not include replacement windows. See Lincoln Municipal Code Section 20.12.270. (Ord. 19674 §5; February 13, 2012).

20.12.035 Section R105.3.1.1 Amended; Determination of Substantially Improved or Substantially Damaged Existing Buildings in Flood Hazard Areas.

Section 105.3.1.1 of the International Residential Code is amended to read as follows:

Section R105.3.1.1 Determination of substantially improved or substantially damaged existing buildings in Flood Hazard Areas. For buildings located in a floodplain or floodprone area within the City's zoning jurisdiction, the regulations and specifications set forth in Lincoln Municipal Code Chapters 27.52 and 27.53 shall apply. (Ord. 19674 §6; February 13, 2012).

20.12.040 Section R105.4.1 Added; Orders Not Stayed.

Section R105.4.1 is added to the International Residential Code to read as follows:

R105.4.1 Orders not stayed. Orders, deadlines, provisions and/or penalties established by the Building Official or any other officer or other designated authority with the City of Lincoln charged with the administration and enforcement of any code or ordinance under the Lincoln Municipal Code shall not be stayed or nullified because of the issuance or granting of a building permit. (Ord. 19674 §7; February 13, 2012).

20.12.045 Section R105.5 Amended; Expiration.

Section R105.5 of the International Residential Code is amended to read as follows:

R105.5 Expiration. Every permit issued shall become invalid unless the work authorized by such permit is commenced within 120 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time the work is commenced.

All permits shall expire after two years. New plans and permit will be required to extend the project. The Building Official is authorized to grant, by written request, one extension of time due to size and scope of project for a period of not more than one year with the payment of two-thirds of the original building permit fee. (Ord. 19674 §8; February 13, 2012).

20.12.050 Section R106.2 Amended; Site Plan or Plot Plan.

Section R106.2 of the International Residential Code is amended to read as follows:

R106.2 Site plan or plot plan. The construction documents submitted with the application for permit shall be accompanied by a site plan showing the size and location of new construction and existing structures on the site and distances from lot lines. The site plan shall include elevations of existing property lines, street and proposed foundation as per R403.1.7.3. In the case of demolition, the site plan shall show construction to be demolished and the location and size of existing structures and construction that are to remain on the site or plot. The Building Official is authorized to waive or modify the requirement for a site plan when the application for permit is for alteration or repair or when otherwise warranted. (Ord. 19674 §9; February 13, 2012).

20.12.055 Section R107 and Subsections, Temporary Structures and Uses; Deleted.

Section R107 of the International Residential Code and all subsections thereof are hereby deleted. (Ord. 19674 §10; February 13, 2012).

20.12.060 Section R108 Amended; Fees.

Section R108 of the International Residential Code is amended to read as follows:

**SECTION R108
FEES**

R108.1 General. Fees shall be assessed in accordance with the provisions of this section or shall be as set forth in the fee schedule adopted in the following sections.

R108.2 Permit fees. The fee for each permit shall be as set forth in Tables No. 1A and 1B set forth herein.

The determination of value or valuation to be used in computing the building permit and building plan review fees shall be the total value of all construction work for which the permit is issued, as well as all finish work, painting, roofing, electrical, plumbing, heating, air conditioning, elevators, fire extinguishing systems and any other permanent equipment. The Building Official may determine valuation by applying the International Code Council valuation or other recognized method of estimating building construction project cost.

The value or valuation used by the Building Official in computing the building permit and plan review fees is only an estimate and is not intended to be used as conclusive evidence of the actual value of all construction work for which the permit is issued as well as all finish work, painting, roofing, electrical, plumbing, heating, air conditioning, elevators, fire extinguishing systems and any other permanent equipment for purposes of determining whether said value exceeds a certain percentage of the fair market value of the building in question.

R108.3 Plan review fees. When a plan or other data are required to be submitted by Section R105.3, a plan review fee shall be paid at the time of submitting plans and specifications for review. Said plan review fee shall be an amount equal to 30% of the building permit fee shown in Table 1A and Table 1B for residential buildings of one and two dwelling units, or \$30.00 whichever is greater. At time of submittal for an application for a building permit for residential buildings of one- and two-family dwelling units, a permit deposit of \$100.00 shall be made by the applicant.

The plan review fees in this subsection are separate from and in addition to the permit fees specified in Section R108.2 and shall not be credited to the total building permit fee if such permit is issued. There shall be no refund for plan review after any plan review has been completed by the Department of Building and Safety, even if the application is withdrawn.

One additional plan review of corrections made on the original plans after the initial plan review shall be performed at no cost to the applicant; however, where plans require further corrections, are incomplete, or are changed necessitating additional plan review, an additional plan review fee shall be charged at the rate of ten percent of the total permit fee or \$50.00, whichever is greater, for each additional review. Additional plan review fees may be applicable as set forth below:

Single-family and duplex limited permit reviews will be subject to an additional plan review fee at the rate of ten percent of the total building permit fee or \$100.00, whichever is greater.

R108.4 Development permit fees.

R108.4.1 A fee shall be assessed for any flood plain development permit applied for under Lincoln Municipal Code Chapters 27.52 and 27.53 and shall be paid at the time of application therefor. The fee for each permit shall be as follows:

Floodplain Development Permit Fees

Floodplain Permit	15% of Building Fee (\$250.00 Minimum)
Floodplain - All Other Development	\$250.00
Floodplain Permit – Fill	\$250.00 + \$50.00 per acre (\$2,500.00 Maximum)
Floodplain – Mobile Home Placement	\$50.00
Floodplain – Accessory Buildings	\$50.00
Floodplain – Residential Non-substantial Improvement	\$100.00

R108.4.2 In those cases where a development permit is required for a structure, but a building permit is not required, the value of construction as determined by Section R108.2 of this code shall be used to calculate the development permit fee.

R108.4.3 Any work requiring a development permit commenced prior to the issuance of the permit shall result in the assessment of an investigation fee in accordance with Section R108.6 of this code, which investigation fee shall be in addition to the development permit fee.

R108.4.4 The Building Official may refund not more than two-thirds of the development permit fee when an application for which such fee has been paid is withdrawn or canceled prior to commencement of plan review.

R108.5 Expiration of plan review. Applications for which no permit is issued within 180 days following the date of application shall expire by limitation, and plans and other data submitted for review may thereafter be returned to the applicant or destroyed by the Building Official. The Building Official may extend the time for action by the applicant for a period not exceeding 180 days on request by the applicant prior to the expiration date showing that circumstances beyond the control of the applicant have prevented action from being taken. No application shall be extended more than once. In order to renew action on an application after expiration, the applicant shall resubmit plans and pay all new Building and Safety Department permit fees.

R108.6 Investigation fees. Work without a permit.

R108.6.1 Investigation. Whenever any work for which a permit is required by this code has been commenced without first obtaining said permit, a special investigation shall be made before a permit may be issued for such work.

R108.6.2 Fee. An investigation fee, in addition to the permit fee, shall be collected whether or not a permit is then or subsequently issued. The investigation fee shall be equal to the amount of the permit fee required by this code. The minimum investigation fee shall be the same as the minimum fee set forth in Table 1-A and Table 1-B. The payment of such investigation fee shall not exempt any person from compliance with all other provisions of this code nor from any penalty prescribed by law.

R108.7 Fee refunds. There shall be no refunds or credits given on permits or applications regulated by this chapter which have expired. Permit holders returning an unused permit prior to the expiration date of the permit shall be limited to a maximum refund amounting to two-thirds of the total building permit fee, with the remaining one-third to be used to pay the cost of processing the permit. The Building Official may authorize refunding of not more than two-thirds of the plan review fee or permit deposit paid when an application for a permit for which such fee has been paid is withdrawn or canceled before any plan reviewing is done.

No refund shall be issued on a permit deposit or plan review fee, floodplain development fee, demolition fee, or any other fee collected by the department, where the refund amount is less than \$50.00. Where a fee has been collected in error, the Building Official may authorize a 100% refund.

TABLE 1-A - RESIDENTIAL PERMIT FEES - New Residence

Value of Construction	Building Permit Fee	Number of Inspections at Building Permit Fee
\$1-\$500	\$30.00	2
\$501-\$25,000	\$30.00 plus \$4.00 for each additional \$1,000, or fraction thereof, of value	3
\$25,001-\$100,000	\$78.00 plus \$2.00 for each additional \$1,000, or fraction thereof, of value	4
\$100,001-\$200,000	\$228.00 plus \$2.00 for each additional \$1,000, or fraction thereof, of value	5

\$200,001-\$300,000	\$428.00 plus \$2.00 for each additional \$1,000, or fraction thereof, of value	6
\$300,001-\$400,000	\$628.00 plus \$2.00 for each additional \$1,000 or fraction thereof, of value	7
Over \$400,000	\$828.00 plus \$2.00 for each additional \$1,000 or fraction thereof, of value	8

The fee for each inspection in excess of the number of inspections for each category of value of construction stated above shall be \$30.00.

The fee for each re-inspection for which a deficiency is not corrected shall be \$30.00.

Fees for additional plan reviews shall be 30% of the building permit fee.

TABLE 1-B - RESIDENTIAL PERMIT FEES - Remodel and Additions

Value of Construction	Building Permit Fee	Number of Inspections at Building Permit Fee
\$1-\$500	\$30.00	2
\$501-\$25,000	\$34.00 plus \$4.00 for each additional \$1,000, or fraction thereof, of value	3
\$25,001-\$100,000	\$134.00 plus \$2.00 for each additional \$1,000, or fraction thereof, of value	4
\$100,001-\$200,000	\$284.00 plus \$2.00 for each additional \$1,000, or fraction thereof, of value	5
\$200,001-\$300,000	\$484.00 plus \$2.00 for each additional \$1,000, or fraction thereof, of value	6
\$300,001-\$400,000	\$684.00 plus \$2.00 for each additional \$1,000 or fraction thereof, of value	7
Over \$400,000	\$884.00 plus \$2.00 for each additional \$1,000 or fraction thereof, of value	8

The fee for each inspection in excess of the number of inspections for each category of value of construction stated above shall be \$30.00.

The fee for each re-inspection for which a deficiency is not corrected shall be \$30.00.

Fees for additional plan reviews shall be 30% of the building permit fee.

Investigation of damage by any cause shall be \$100.00 in addition to any building or demolition permits issues.

R108.7 Demolition permit fees. No demolition, razing, or destructive removal of any structure covered by this code shall be permitted without the issuance of a demolition permit by the Building Official. Demolition permits for residential housing, other than garages, shall be \$200.00. Demolition permits for residential garages shall be \$30.00. (Ord. 19674 §11; February 13, 2012).

20.12.065 Section R109 Section Heading Amended; Inspections and Surveys.

The section heading of Section R109 of the International Residential Code is amended to read as follows:

**SECTION R109
INSPECTIONS AND SURVEYS**

(Ord. 19674 §12; February 13, 2012).

20.12.070 Section R109.1 Amended; Types of Inspections.

Section R109.1 of the International Residential Code is amended to read as follows:

R109.1 Types of inspections. All construction or work for which a permit is required shall be subject to inspection by the Building Official and all such construction work shall remain accessible and exposed for inspection purposes until approved by the Building Official.

Approval as a result of an inspection shall not be construed to be an approval of a violation of the provisions of this code or of other ordinances of the City.

A survey of the lot or lots upon which permitted work for additions, alterations, or repairs are being accomplished shall be provided by a duly licensed surveyor of the State of Nebraska before plans and specifications shall be accepted by the Building Official to verify compliance of the construction or work with building line setback requirements of the Lincoln Municipal Code. All boundary corners of a lot or lots with permanent survey monuments shall be marked in the field by a duly licensed surveyor of the State of Nebraska.

It shall be the duty of the permit applicant to cause the work to remain accessible and exposed for inspection purposes. Neither the Building Official nor the City shall be liable for expense entailed in the removal or replacement of any material required to allow inspection.

In the event any permit holder or permit holder's agent shall fail to request required inspections as herein provided or in the event any permit holder or permit holder's agent shall have a backlog of one or more permits with no final inspections completed or if any fees for any other building permits have not been paid, the Building Official is authorized to withhold further issuance of any permit or perform any further inspections under this code to said permit holder or the permit holder's agent until required inspections have been completed and all fees for all other building permits have been paid as provided by this code. (Ord. 19674 §13; February 13, 2012).

20.12.075 Section R109.1.2 Amended; Setback Verification.

Section R109.1.2 of the International Residential Code is amended to read as follows:

R109.1.2 Setback verification. A setback dimension greater than six inches over the minimum shall be verified by the Building Official. A setback dimension that is less than six inches but greater than two inches over the minimum dimension shall be verified by the Building Official using a string line between lot pins. A setback dimension that is two inches or less over the minimum shall be verified by a licensed surveyor prior to pouring the concrete for the walls. (Ord. 19674 §14; February 13, 2012).

20.12.080 Section R109.1.4 Amended; Frame Inspection.

Section R109.1.4 of the International Residential Code is amended to read as follows:

R109.1.4 Frame inspection. Inspection of framing construction shall be made after all framing, firestopping, draftstopping and bracing are in place and after the water-resistive barrier and flashing is installed but before the exterior wall covering is installed. (Ord. 19674 §15; February 13, 2012).

20.12.085 Section R109.1.7 Added; Reinspections.

Section R109.1.7 is added to the International Residential Code to read as follows:

R109.1.7 Reinspections. A reinspection fee may be assessed for each inspection or reinspection when such portion of work for which inspection is called is not complete or when corrections called for are not made.

This subsection is not to be interpreted as requiring reinspection fees the first time a job is rejected for failure to comply with the requirements of this code, but as controlling the practice of calling for inspections before the job is ready for such inspection or reinspection.

Reinspection fees may be assessed when the Building Inspector initiates the inspection because the permit holder or his agent fails to schedule the inspection as per R109.3

Reinspection fees may be assessed when the inspection record card is not posted or otherwise available on the work site, the approved plans are not readily available to the inspector, for failure to provide access on the date for which inspection is requested, or for deviating from plans requiring the approval of the Building Official.

In instances where reinspection fees have been assessed, no additional inspection of the work will be performed until the required fees have been paid. (Ord. 19674 §16; February 13, 2012).

20.12.090 Section R109.5 Added; Address Identification.

Section R109.5 is added to the International Residential Code to read as follows:

R109.5 Address identification. All additions, alterations, or repairs for which a permit is required by this code shall be provided with a construction address identification sign. Said identification sign shall be a sign of metal, wood, plastic, or other approved rigid material with permanent identification numbers and letters thereon indicating the legally assigned street or other type address assigned by the Building Official. Said identification sign shall have numbers and letters of such size and shall be so placed upon the construction site that said sign is readily visible and identifiable from the public street. Said identification sign shall be properly maintained during the entire period of time that the construction or work is being accomplished or maintained. (Ord. 19674 §17; February 13, 2012).

20.12.095 Section R110 Amended; Certificate of Occupancy.

Section R110 of the International Residential Code is amended to read as follows:

SECTION R110 CERTIFICATE OF OCCUPANCY

R110.1 Use and occupancy. No building or structure other than Group U occupancies, shall be used or occupied, and no change in the existing use or occupancy classification of a building or structure or portion thereof shall be made until the Building Official has issued a certificate of occupancy therefor, as provided in Chapter 27.77 of the Lincoln Municipal Code.

It shall be the responsibility of a permit holder or the permit holder's agent to call for all required inspections, including the final inspection, of all additions, alterations, or repairs performed under a plumbing, mechanical, electrical or building permit. Final inspection shall be called for by the permit holder or the permit holder's agent prior to occupancy of the building or structure or portion thereof. In the event any permit holder or permit holder's agent shall fail to call for required inspections as herein provided or in the event any permit holder or permit holder's agent shall have a backlog of one or more permits with no final inspections completed, the Building Official is authorized to withhold further issuance of any permit or perform any further inspections under this code to said permit holder or the permit holder's agent until required inspections have been completed as provided by this code. Written notice of the withholding issuance of new permits shall be given to the permit holder by the Building Official.

R110.2 Change in use. Changes in the character or use of a building shall not be made except as specified in Section 3408 of the International Building Code.

R110.3 Certificate issued. After the Building Official performs a final inspection and observes that the required sidewalks along the frontage of any residential zoned single-family or two-family lot abutting upon a local or collector street have been installed, a certificate of occupancy shall be issued when it is found that the building or structure complies with requirements of issuance set forth in Chapter 27.77 of the Lincoln Municipal Code.

R110.4 Temporary certificate. If the Building Official finds that no substantial hazard will result from occupancy of any building or portion thereof before the same is completed, a temporary certificate of occupancy may be issued for the use of a portion or portions of a building or structure prior to the completion of the entire building or structure and issuance of the certificate of occupancy. If the temporary certificate of occupancy is issued for a single- or two-family dwelling located upon a single- or two-family lot abutting upon a local or collector street, the temporary certificate of occupancy shall be conditioned upon the sidewalks along the frontage of said lot being constructed during the same or next construction season.

R110.4.1 Temporary certificate limitations. Each temporary certificate of occupancy shall be limited to a term to be determined by the Building Official.

R110.5 Revocation. The Building Official may, in writing, suspend or revoke a certificate of occupancy issued under the provisions of this code whenever the certificate is issued in error, or on the basis of incorrect information supplied, or when it is determined that the building or structure or portion thereof is in violation of any ordinance or regulation or any of the provisions of this code. (Ord. 19674 §18; February 13, 2012).

20.12.100 Section R111 Deleted; Service Utilities.

Section R111 of the International Residential Code and all subsections thereof are hereby deleted. (Ord. 19674 §19; February 13, 2012).

20.12.105 Section R112 Amended; Board of Appeals.

Section R112 of the International Residential Code is amended to read as follows:

SECTION R112 BOARD OF APPEALS

R112.1 Building Code Board of Appeals. The appeals board and appeals procedure adopted under Lincoln Municipal Code Section 20.08.150 pursuant to Section 113 of the International Building Code as amended by the City of Lincoln, shall serve as the appeals board and appeals procedure for this code.

R112.2 Limitations on authority - Deleted.

R112.2.1 Determination of substantial improvement in areas prone to flooding - Deleted.

R112.2.2 Criteria for issuance of a variance for areas prone to flooding - Deleted.

R112.3 Qualifications - Deleted.

R112.4 Administration - Deleted.

(Ord. 19674 §20; February 13, 2012).

20.12.110 Section R113.3 Amended; Prosecution of Violation.

Section R113.3 of the International Residential Code is amended to read as follows:

R113.3 Prosecution of violation. If the notice of violation is not complied with and the abatement or correction of the violation is not completed within the time frame given in the notice of violation, the Building Official may withhold issuance of any further building permits and may withhold any further inspection pending compliance with the order of abatement or correction and the Building Official is authorized to make a request to the City Law Department to institute the appropriate civil proceedings at law or in equity to restrain, correct, or abate such violation, or to require the removal or termination of the unlawful occupancy of the building or structure in violation of the provisions of this code or of the order or direction made pursuant thereto. The Building Official may also refer violations to the City Law Department for prosecution under Lincoln Municipal Code Section 20.12.110. (Ord. 19674 §21; February 13, 2012).

20.12.115 Section R113.4 Amended; Violation Penalties.

Section R113.4 of the International Residential Code is amended to read as follows:

R113.4 Violation penalties. Any person, firm, or corporation who shall violate any of the provisions of this code shall be deemed guilty of a misdemeanor and upon conviction thereof shall be fined in any sum not to exceed \$500.00, or be imprisoned in the county jail for a period not to exceed six months, or by both such fine and imprisonment, except that each person so convicted shall be fined in a sum of not less than \$200.00 for the first offense, not less than \$250.00 for the second offense, and not less than \$300.00 for the third offense and each offense thereafter. Each day that such violation is committed or permitted to continue shall constitute a separate offense and shall be punishable as such hereunder. (Ord. 19674 §22; February 13, 2012).

20.12.120 Section R114 Amended; Stop Work Order.

Section R114 of the International Residential Code is amended to read as follows:

R114.1 Notice to owner. Upon notice from the Building Official that work on any building or structure is being prosecuted contrary to the provisions of this code or in an unsafe and dangerous manner, such work shall be immediately stopped. The stop work order shall be in writing and shall be delivered to the owner of the property involved, or to the owner's agent, or to the person doing the work, and shall state the conditions under which work shall be permitted to resume. The Building Official may post the stop work order on the property subject to the permit. If the owner or owner's agent fails to comply with the stop work order or fails to correct any violations or unsafe and dangerous work practices ordered to be abated or corrected within thirty days or the time frame given in the stop work order, the Building Official shall withhold issuance of any further building permits and withhold any further inspections pending compliance with the stop work order and abatement or correction of any violations or unsafe and dangerous work practices.

R114.2 Time to correct violations. The International Residential Code violations or any other Lincoln Municipal Code violations stated in the stop work order shall be abated within thirty days, unless directed otherwise by the Building Official, or be subject to penalties as prescribed in this code. (Ord. 19674 §23; February 13, 2012).

20.12.125 Section R115 Added; Demolition of Buildings.

Section R115 is added to the International Residential Code to read as follows:

**SECTION R115
DEMOLITION OF BUILDINGS**

R115.1 General. Demolition of buildings shall comply with Section 3303 of the International Building Code as adopted by the City of Lincoln in the Lincoln Municipal Code. Demolition under this code must start within thirty days and be completed sixty days after the date the permit was issued. The Building Official may extend a demolition permit an additional thirty days. Applications for demolition permits shall expire 180 days after the application date. In the event of a conflict between this section and any part of Lincoln Municipal Code Chapter 20.04 (“Dangerous Building Code”), the relevant section of the Dangerous Building Code shall control. (Ord. 19674 §24; February 13, 2012).

20.12.130 Section R202 Amended; Definitions.

Section R202 of the International Residential Code is amended to read as follows:

**SECTION R202
DEFINITIONS**

Other than the following, all definitions are adopted as printed in the 2009 International Residential Code:

ACCESSORY STRUCTURE. A structure not greater than 1,800 square feet in floor area, the use of which is customarily accessory to and incidental to that of the dwelling(s) and which is located on the same lot.

KITCHEN. A facility for cooking, storing, and preparing food. A kitchen shall include a stove, refrigerator, sink, and a minimum of 4 lineal feet of counter space. (Ord. 19674 §25; February 13, 2012).

20.12.135 Section R301.2.4 Amended; Floodplain Construction.

Section R301.2.4 of the International Residential Code is amended to read as follows:

Section R301.2.4 Floodplain construction. For buildings located in a floodplain or floodprone area within the City’s zoning jurisdiction, the regulations and specifications set forth in Lincoln Municipal Code Chapters 27.52 and 27.53 shall apply. (Ord. 19674 §26; February 13, 2012).

20.12.140 Table No. R301.2(1) Amended; Climatic and Geographic Design Criteria.

Table No. R301.2(1) of the International Residential Code is amended to read as follows:

TABLE R301.2(1)
CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

GROUND SNOW LOAD	WIND SPEED ^d (mph)	SEISMIC DESIGN CATEGORY ^f	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP ^e	ICE BARRIER UNDERLAYMENT REQUIRED ^h	FLOOD HAZARDS ^g
			Weathering ^a	Frost Line depth ^b	Termite ^c			
30 psf	90 mph	B	Severe	36"	moderate to heavy	70° F	Yes	See LMC 27.52 & 27.53

All footnotes to Table R301.2(1) of this code shall apply. (Ord. 19674 §27; February 13, 2012).

20.12.145 Table R301.5 Amended; Minimum Uniformly Distributed Live Loads.

Table R301.5 of the International Residential Code is amended to read as follows:

TABLE R301.5
MINIMUM UNIFORMLY DISTRIBUTED LIVE LOADS
(in pounds per square foot)

USE	LIVE LOAD
Attics with limited storage ^{b,g,h}	20
Attics without storage ^b	10
Attics served with a fixed stairs	40
Decks and exterior balconies ^e	40
Fire escapes	40
Guardrails and handrails ^d	200 ⁱ
Guardrails in-fill components ^f	50 ⁱ
Passenger vehicle garages ^a	50 ^a
Rooms other than sleeping rooms	40
Sleeping rooms	40
Stairs	40 ^c

For SI: 1 pound per square foot = 0.0479 kPa, 1 square inch = 645 mm²,
1 pound = 4.45 N.

All footnotes to Table No. R301.5 of this code shall apply. (Ord. 19674 §28; February 13, 2012).

20.12.150 Table R301.7 Amended; Allowable Deflection of Structural Members.

Table R301.7 of the International Residential Code is amended to read as follows:

**TABLE R301.7
ALLOWABLE DEFLECTION OF STRUCTURAL MEMBERS**

STRUCTURAL MEMBER	ALLOWABLE DEFLECTION
Rafters having slopes greater than 3/12 with no finished ceiling attached to rafters	L/180
Interior walls and partitions	H/240
All other structural members L/240	L/240
Exterior walls with plaster or stucco finish	H/360
Exterior walls —wind loads ^a with brittle finishes	H/240
Exterior walls—wind loads ^a with flexible finishes	H/180
Floors – 16'6" or less	L/360
Floors over 16'6" span	L/480

Note: L = span length, H = span height.

All footnotes to Table R301.7 of this code shall apply. (Ord. 19674 §29; February 13, 2012).

20.12.155 Section R302.1 Amended; Exterior Walls.

Section R302.1 of the International Residential Code is amended to read as follows:

R302.1 Exterior walls. Construction, projections, openings and penetrations of exterior walls of dwellings and accessory buildings shall comply with Table R302.1. These provisions shall not apply to walls, projections, openings or penetrations in walls that are perpendicular to the line used to determine the fire separation distance. Projections beyond the exterior wall shall not extend more than 12 inches into the areas where openings are prohibited. No part of a detached structure shall be closer than 2 feet from a lot line.

Exception 1: Detached tool sheds and storage sheds, playhouses and similar structures with a floor area of equal to or less than 120 square feet are not required to provide wall protection.

Exception 2: Detached accessory buildings greater than 120 square feet with walls located less than 3 feet from a lot line shall be 1 hour protected with exposure from the inside with no openings.

Exception 3: An accessory building located less than 6 feet from a dwelling unit including decks greater than 30 inches above grade, shall be protected with no less than 5/8" type X gypsum board applied to the interior side of the walls and the ceiling. The door shall be no less than a solid

core or steel door no less than 1 3/8" thickness. No other openings shall be permitted. (Ord. 19674 §30; February 13, 2012).

20.12.160 Table R302.1 Amended; Exterior Walls.

Table R302.1 of the International Building Code is amended to read as follows:

**TABLE R302.1
EXTERIOR WALLS**

EXTERIOR WALL ELEMENT		MINIMUM FIRE-RESISTANCE RATING	MINIMUM FIRE SEPARATION DISTANCE
Walls	(Fire-resistance rated)	1 hour with exposure from both sides*	0 feet
	(Not fire-resistance rated)	0 hours	>5 feet
Projections	(Fire-resistance rated)	1 hour on the underside	<3 feet
	(Not fire-resistance rated)	0 hours	> or = 3 feet
Openings	Not allowed	N/A	<3 feet
	25% Maximum of Wall Area	0 hours	3 feet
	Unlimited	0 hours	5 feet
Penetrations	All	Comply with Section R317.3	<5 feet
		None required	5 feet

*Detached Garages- 1 hour protection from the inside only.
(Ord. 19674 §31; February 13, 2012).

20.12.165 Section R302.2 Amended; Townhouses.

Section R302.2 of the International Residential Code is amended to read as follows:

R302.2 Townhouses. Each townhouse shall be considered a separate building and shall be separated by fire-resistance-rated wall assemblies meeting the requirements of Section R302.1 for exterior walls.

Exception: A common 2-hour fire-resistance-rated wall assembly tested in accordance with ASTM E 119 or UL 263 is permitted for townhouses if such walls do not contain plumbing or mechanical equipment, ducts or vents in the cavity of the common wall. The wall shall be rated for fire exposure from both sides and shall extend to and be tight against exterior walls and the underside of the roof sheathing. Electrical installations shall be installed in accordance with the City of Lincoln Electrical Code. Penetrations of electrical outlet boxes shall be in accordance with Section R302.4. (Ord. 19674 §32; February 13, 2012).

20.12.170 Figure R302.2 (1) Added; Typical Party Wall Section; Two 1 Hour Walls.

Figure R302.2 (1) is added to the International Residential Code as shown on said figure at the end of this chapter. (Ord. 19674 §33; February 13, 2012).

20.12.175 Figure R302.2 (2) Added; Typical Party Wall Section; 2 Hour Non Bearing Wall With Parallel Bearing Walls.

Figure R302.2 (2) is added to the International Residential Code as shown on said figure at the end of this chapter. (Ord. 19674 §34; February 13, 2012).

20.12.180 Figure R302.2 (3) Added; Typical Party Wall Section; One 2 Hour Shaft Wall.

Figure R302.2 (3) is added to the International Residential Code as shown on said figure at the end of this chapter. (Ord. 19674 §35; February 13, 2012).

20.12.185 Figure R302.2 (4) Added; Typical Party Wall Section; Single 2 Hour Walls.

Figure R302.2 (4) is added to the International Residential Code as shown on said figure at the end of this chapter. (Ord. 19674 §36; February 13, 2012).

20.12.190 Section R302.2.2 Amended; Parapets.

Section R302.2.2 of the International Residential Code is amended to read as follows:

R302.2.2 Parapets. Parapets constructed in accordance with Section R302.2.3 shall be constructed for townhouses as an extension of exterior walls or common walls in accordance with the following:

1. Where roof surfaces adjacent to the wall or walls are at the same elevation, the parapet shall extend not less than 30 inches above the roof surfaces.

2. Where roof surfaces adjacent to the wall or walls are at different elevations and the higher roof is not more than 30 inches above the lower roof, the parapet shall extend not less than 30 inches above the lower roof surface.

Exception: A parapet is not required in the two cases above when the roof is covered with a minimum class C roof covering, and the roof decking or sheathing is of noncombustible materials or approved fire-retardant-treated wood for a distance of 4 feet on each side of the wall or walls, or one layer of 5/8 inch Type X gypsum board is installed directly beneath the roof decking or sheathing, supported by a minimum of nominal 2-inch ledgers attached to the sides of the roof framing members, for a minimum distance of 4 feet on each side of the wall or walls.

3. A parapet is not required where roof surfaces adjacent to the wall or walls are at different elevations and the higher roof is more than 30 inches above the lower roof. The common wall construction from the lower roof to the underside of the higher roof deck shall have not less than a 1-hour fire-resistance rating. The wall shall be rated for exposure from both sides.

4. Penetration and openings in the roof shall not be located within 5 feet of the property line. (Ord. 19674 §37; February 13, 2012).

20.12.195 Section R302.2.4 Exception 5 Deleted; Structural Independence.

Exception 5 to Section R302.2.4 of the International Residential Code is hereby deleted. (Ord. 19674 §38; February 13, 2012).

20.12.200 Section R302.3 Amended; Two-family Dwellings.

Section R302.3 of the International Residential Code is amended to read as follows:

R302.3 Two-family dwellings. Dwelling units in two-family dwellings shall be separated from each other by wall and/or floor assemblies of not less than 1-hour fire-resistive rating when tested in accordance with ASTM E 119. Fire-resistance-rated floor-ceiling and wall assemblies shall

extend to and be tight against the exterior wall, and wall assemblies shall extend to the underside of the roof sheathing. The minimum connection between units of a two-family dwelling shall be an 8-foot roof connection measured parallel to the adjoining walls and connected to each unit.

Exceptions:

1. A fire resistance rating of 1/2 hour shall be permitted in buildings equipped throughout with an automatic sprinkler system installed in accordance with NFPA 13.

2. Where the common wall of the dwelling units is located on a property line, the units shall be separated by fire resistance rated wall assemblies meeting the requirements of Section R302 for exterior walls.

3. Wall assemblies need not extend through attic spaces when the ceiling is protected by not less than 5/8-inch Type X gypsum board and an attic draft stop constructed as specified in Section R502.12.1 is provided above and along the wall assembly separating the dwellings. The structural framing supporting the ceiling shall also be protected by not less than 1/2 -inch gypsum board or equivalent. (Ord. 19674 §39; February 13, 2012).

20.12.205 Section R302.5.2 Deleted; Duct Penetration.

Section R302.5.2 of the International Residential Code is hereby deleted. (Ord. 19674 §40; February 13, 2012).

20.12.210 Section R302.6 Amended; Separation Required.

Section 302.6 of the International Residential Code is amended to read as follows:

R302.6 Separation required. The garage shall be separated from the residence and its attic area by not less than 5/8-inch type X gypsum board applied to the garage wall side. Garages beneath habitable rooms shall be separated from all habitable rooms above by not less than 5/8-inch type X gypsum board or equivalent. Where the separation is a floor-ceiling assembly, the structure supporting the separation shall also be protected by not less than 5/8-inch type X gypsum board or equivalent. A cantilever projecting over a garage door shall be protected on the underside by not less than 5/8-inch Type X gypsum board.

Garages located less than 6 feet from a dwelling unit on the same lot shall be protected with not less than 5/8-inch type X gypsum board applied to the interior side of exterior walls that are within this area. Openings in these walls shall be regulated by Table R302.1. This provision does not apply to garage walls that are perpendicular to the adjacent dwelling unit wall. Accessory buildings 120 square feet or greater, located less than 6 feet from the residence shall be protected by not less than 5/8-inch type X gypsum board applied to the interior side, with no openings permitted. (Ord. 19674 §41; February 13, 2012).

20.12.215 Table R302.6 Amended; Dwelling/Garage Fire Separation.

Table R302.6 of the International Residential Code is amended to read as follows:

**TABLE R302.6
DWELLING/GARAGE SEPARATION**

SEPARATION	MATERIAL
From the residence and attics	Not less than 5/8-inch type X gypsum board or equivalent applied to the garage side.
Structure(s) supporting floor/ceiling assemblies used for separation required by this section	Not less than 5/8-inch type X gypsum board or equivalent.
Garages located less than 6 feet from a dwelling unit on the same lot	Not less than 5/8 type X gypsum board or equivalent applied to the interior side of exterior walls that area within this area.

(Ord. 19674 §42; February 13, 2012).

20.12.220 Section R302.12 Amended; Draftstopping.

Section R302.12 of the International Residential Code is amended to read as follows:

R302.12 Draftstopping. In combustible construction where there is usable space both above and below the concealed space of a floor/ceiling assembly, draftstops shall be installed so that the area of the concealed space does not exceed 1,000 square feet. Draftstopping shall divide the concealed space into approximately equal areas. Where the assembly is enclosed by a floor membrane above and a ceiling membrane below, draftstopping shall be provided in floor/ceiling assemblies under the following circumstances:

1. Ceiling is suspended under the floor framing.
2. Floor framing is constructed of truss-type open-web or perforated members.

Attics in combustible construction. Draftstopping shall be installed so that no part of the attic is greater than 3,000 square feet in area. The draftstop shall be constructed above the separation wall between the garage and residence. (Ord. 19674 §43; February 13, 2012).

20.12.225 Section R303.1 Exception 2 Amended; Habitable Rooms.

Exception 2 of Section R303.1 of the International Residential Code is amended to read as follows:

2. The glazed areas shall not be required to be provided in habitable rooms in basements except for bedrooms where Exception 1 above is satisfied and artificial light is provided capable of producing an average illumination of 6 foot candles over the area of the room at a height of 30 inches above the floor level.

(Ord. 19674 §44; February 13, 2012).

20.12.230 Section R303.3 Amended; Bathrooms.

Section R303.3 of the International Residential Code is amended to read as follows:

R303.3 Bathrooms. Bathrooms, water closet compartments, laundry rooms, and other similar rooms shall be provided with a mechanical ventilation system. The minimum ventilation rates shall be 50 cfm for intermittent ventilation or 20 cfm for continuous ventilation. Ventilation air from the space shall be exhausted directly to the outside.

In laundry rooms, dryers vented directly to the outside are deemed to meet the requirements of this section. (Ord. 19674 45; February 13, 2012).

20.12.235 Sections R303.4, R303.4.1 and R303.4.2 Deleted; Opening Location.

Sections R303.4, R303.4.1 and R303.4.2 of the International Residential Code are hereby deleted. (Ord. 19674 §46; February 13, 2012).

20.12.240 Section R303.5 Deleted; Outside Opening Protection.

Section R303.5 of the International Residential Code is hereby deleted. (Ord. 19674 §47; February 13, 2012).

20.12.245 Section R305 Amended; Ceiling Heights.

Section R305 of the International Residential Code is amended to read as follows:

**SECTION R305
CEILING HEIGHT**

R305.1 Ceiling Heights. Habitable space shall have a ceiling height of not less than 7 feet, 6 inches. The required height shall be measured from the finished floor to the lowest projection from the ceiling.

Exceptions:

1. Bathrooms, hallways, toilet rooms and laundry rooms shall have a ceiling height of not less than 7 feet.

2. For rooms with sloped ceilings, at least 50 percent of the required floor area of the room must have a ceiling height of at least 7 feet 6 inches. No portion of the room with a ceiling height of less than 5 feet shall be included.

3. The ceiling height above bathroom fixtures shall be such that the fixture is capable of being used for its intended purpose. A shower or tub equipped with a showerhead shall have a minimum ceiling height of 6 feet 8 inches above a minimum area 30 inches by 30 inches at the showerhead.

R305.1.1 Basements. Habitable space in basements within a single family dwelling unit shall have a ceiling height of not less than 7 feet.

Exceptions:

1. Beams, soffits, ducts and piping shall not be less than 6 feet 6 inches from the floor and shall not exceed 1/3 of the total ceiling area of the room.

2. Bathrooms, hallways, toilet rooms and laundry rooms shall have a minimum ceiling height of 6 feet 8 inches.

3. Lighting fixtures shall be a minimum of 6 feet 6 inches above the floor.

4. Ceiling fans shall be a minimum of 7 feet from the floor.

(Ord. 19674 §48; February 13, 2012).

20.12.250 Section R306.2 Amended; Kitchen.

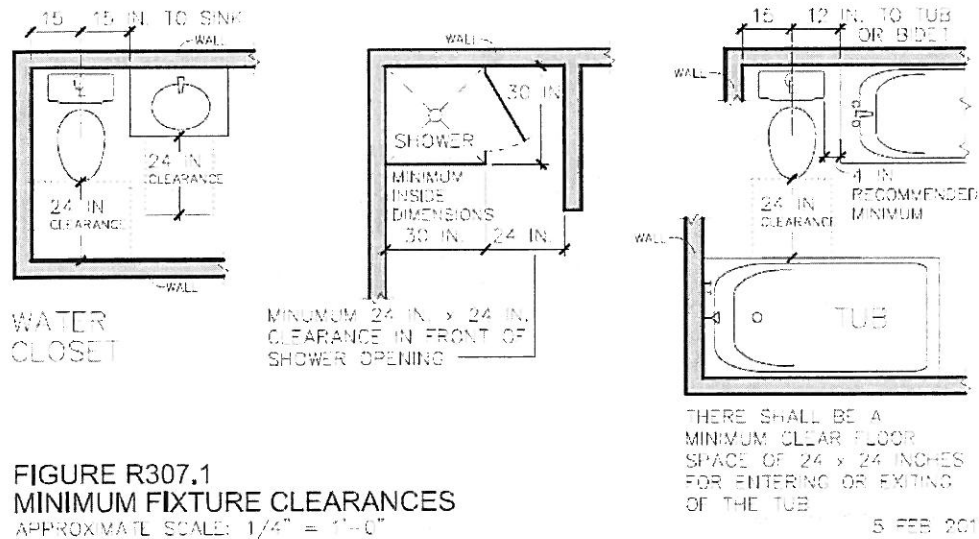
Section R306.2 of the International Residential Code is amended to read as follows:

R306.2 Kitchen. Each dwelling unit shall be provided with a kitchen area and every kitchen area shall be provided with a sink. Domestic free-standing or built-in ranges shall have a vertical clearance above the cooking top of not less than 30 inches to unprotected combustible material. When the underside of such combustible material is protected with insulating millboard at least 1/4 inch thick covered with 28 gage metal or a metal ventilating hood, the distance shall be not less than 24 inches. (Ord. 19674 §49; February 13, 2012).

20.12.255 Figure R307.1 Amended; Minimum Fixture Clearances.

Figure R307.1 of the International Residential Code is amended to read as follows:

FIGURE R307.1
MINIMUM FIXTURE CLEARANCES



(Ord. 19674 §50; February 13, 2012).

20.12.260 Section R307.3 Added; Access to Whirlpool Pump.

Section R307.3 is added to the International Residential Code to read as follows:

R307.3 Access to whirlpool pump. Access shall be provided to circulation pumps in accordance with the fixture manufacturer's installation instructions. Where the manufacturer's instructions do not specify the location and minimum size of field fabricated access openings, a 12-inch by 12-inch minimum size opening shall be installed to provide access to the circulation pump. Where pumps are located more than 2 feet from the access opening, an 18-inch by 18-inch minimum size opening shall be installed. A door or panel shall be permitted to close the opening. In all cases, the access opening shall be unobstructed and be of the size necessary to permit the removal and replacement of the circulation pump. (Ord. 19674 §51; February 13, 2012).

20.12.265 Section R309.3 Amended; Garages and Carports; Flood Hazard Areas.

Section R309.3 of the International Residential Code is amended to read as follows:

R309.3 Flood hazard areas. For buildings located in a floodplain or floodprone area within the City's zoning jurisdiction, the regulations and specifications set forth in Lincoln Municipal Code Chapters 27.52 and 27.53 shall apply. (Ord. 19674 §52; February 13, 2012).

20.12.270 Section R309.5 Added; Headroom Clearance.

Section R309.5 is added to the International Residential Code to read as follows:

R309.5 Headroom clearance. Any portion of a garage shall have an unobstructed headroom clearance of not less than 6 feet 8 inches above the finished floor to any ceiling, beam, pipe, or similar construction except for wall-mounted shelves, storage surfaces, racks, or cabinets. (Ord. 19674 §53; February 13, 2012).

20.12.275 Section R310.1 Amended; Emergency Escape and Rescue Required.

Section R310.1 of the International Residential Code is amended to read as follows:

R310.1 Emergency escape and rescue required. Every sleeping room shall have at least one operable emergency escape and rescue window or exterior door opening for emergency escape and rescue. Rooms with a storage closet greater than 18 inches in depth or direct access to a bathroom shall also comply with this requirement. Where openings are provided as a means of escape and rescue, they shall have a clear opening height not more than 44 inches above the floor. The net clear opening dimensions required by this section shall be obtained by the normal operation of the window or door opening from the inside. Escape and rescue window openings with a finished sill height below the adjacent ground elevation shall be provided with a window well in accordance with Section R310.2. (Ord. 19674 §54; February 13, 2012).

20.12.280 Section R310.1.1 Exception Deleted; Minimum Opening.

The Exception to Section R310.1.1 of the International Residential Code is hereby deleted. (Ord. 19674 §55; February 13, 2012).

20.12.285 Section R310.1.5 Added; Double Hung Egress Window.

Section R310.1.5 is added to the International Residential Code to read as follows:

R310.1.5 Double hung egress window. Double hung windows must meet the requirements for an egress window without removing the upper sash. (Ord. 19674 §56; February 13, 2012).

20.12.290 Section R310.3 Amended; Bulkhead Enclosures.

Section R310.3 of the International Residential Code is amended to read as follows:

R310.3 Bulkhead enclosures. Bulkhead enclosures shall provide direct access only to furnace, water heater, and other mechanical, plumbing and electrical equipment. (Ord. 19674 §57; February 13, 2012).

20.12.300 R311.3.2 Amended; Floor Elevations for Other Exterior Doors.

Section R311.3.2 of the International Residential Code is amended to read as follows:

R311.3.2 Floor elevations for other exterior doors. Doors other than the required egress door shall be provided with landings or floors not more than 7 3/4 below the top of the threshold.

Exceptions:

1. Where a stairway of 4 or more risers is located on the exterior side of the door, other than the required exit door, a landing is required.
2. The height of floors at a garage utility door shall not be more than 7 3/4 inches lower than the top of the threshold. (Ord. 19674 §1; §59).

20.12.305 Section R311.7 Amended; Stairways.

Section R311.7 of the International Residential Code is amended to read as follows:

R311.7 Stairways.

R311.7.1 Width. Stairways shall not be less than 36 inches in clear width at all points above the permitted handrail height and below the required headroom height. Handrails shall not project more than 4.5 inches on either side of the stairway and the minimum clear width of the stairway at

and below the handrail height, including treads and landings, shall not be less than 31.5 inches where a handrail is installed on one side and 27 inches where handrails are provided on both sides.

Exceptions:

1. The width of spiral stairways shall be in accordance with Section R311.7.9.1.
2. Private stairways for lofts or attics may be 30 inches in width provided the minimum clear width at and below the railing shall not be less than 25 1/2 inches.
3. Stringers and other projections such as trim and similar decorative features may project into the required width 1 1/2 inches on each side.

R311.7.2 Headroom. The minimum headroom in all parts of the stairway shall not be less than 6 feet 8 inches measured vertically from the sloped plane adjoining the tread nosing or from the floor surface of the landing or platform.

Exception: When demonstrated to the Building Official there are practical difficulties in achieving 6 feet 8 inches headroom in existing construction, a minimum of 6 feet 6 inches headroom may be allowed.

R311.7.3 Walkline. The walkline across winder treads shall be concentric to the curved direction of travel through the turn and located 12 inches from the side where the winders are narrower.

R311.7.4 Stair treads and risers.

R311.7.4.1 Riser height. The maximum riser height shall be 7 3/4 inches. The riser shall be measured vertically between leading edges of the adjacent tread. The greatest riser height within any flight of stairs shall not exceed the smallest by more than 3/8 inch. The minimum riser height shall be no less than 4 inches. Open risers are permitted.

R311.7.4.2 Tread depth. The minimum tread depth shall be 10 inches unless at the discretion of the Building Official, it may be adjusted to accommodate existing conditions. The greatest tread depth within any flight of stairs shall not exceed the smallest by more than 3/8 inch. Winder treads shall have a minimum tread depth of 10 inches measured at a point 12 inches from the side where the treads are narrower. Winder treads shall have a minimum tread depth of 7 inches at any point.

R311.7.4.3 Profile. The radius of curvature at the nosing shall be no greater than 9/16 inch. A nosing not less than 3/4 inch but not more than 1 1/4 inches be provided on stairways with solid risers. The greatest nosing projection shall not exceed the smallest nosing projection by more than 3/8 inch between two stories, including the nosing at the level of floors and landings. Beveling of nosings shall not exceed 1/2 inch. Risers shall be vertical or sloped under the tread above from the underside of the nosing above at an angle not more than 30 degrees from the vertical. Open risers are permitted.

Exception: A nosing is not required where the tread depth is a minimum of 10 inches.

R311.7.4.4 Exterior wood/plastic composite stair treads. Wood/plastic composite stair treads shall comply with the provisions of Section R317.4.

R311.7.5 Landings for stairways. There shall be a floor or landing at the top and bottom of each stairway.

Exception 1: A floor or landing is not required at the top of an interior flight of stairs, including stairs in an enclosed garage, provided a door does not swing over the stairs. A flight of stairs shall not have a vertical rise larger than 12 feet between floor levels or landings. The width of each landing shall not be less than the width of the stairway served. Every landing shall have a minimum dimension of 36 inches measured in the direction of travel.

Exception 2: The bottom of an exterior stair shall be supported by a concrete or stone pad that provides a minimum landing of 12 inches, the top of which is at grade level, and shall be the width of the stairs.

R311.7.6 Stairway walking surface. The walking surface of treads and landings of stairways shall be sloped no steeper than one unit vertical in 48 inches horizontal (2-percent slope).

R311.7.7 Handrails. Handrails shall be provided on at least one side of each continuous run of treads or flight with four or more risers. The handrail for circular, and winding stairs shall be located on the side where the tread is narrower.

R311.7.7.1 Height. Handrail height, measured vertically from the sloped plane adjoining the tread nosing, or finish surface of ramp slope, shall be not less than 34 inches and not more than 38 inches (965 mm).

R311.7.7.2 Continuity. Handrails for stairways shall be continuous for the full length of the flight, from a point directly above the top riser of the flight to a point directly above the lowest riser of the flight. Handrails adjacent to a wall shall have a space of not less than 1½ inch between the wall and the handrails.

Exceptions:

1. Handrails shall be permitted to be interrupted by a newel post at the turn.
2. The use of a volute, turnout, starting easing or starting newel shall be allowed over the lowest tread.
3. Handrails shall be permitted to be interrupted at the point where a stairway wall changes to an open guard.

R311.7.7.3 Grip-size. All required handrails shall be of one of the following types or provide equivalent graspability.

1. Type I. Handrails with a circular cross section shall have an outside diameter of at least 1 1/4 inches and not greater than 2 inches. If the handrail is not circular, it shall have a perimeter dimension of at least 4 inches and not greater than 6 1/4 inches with a maximum cross section of dimension of 2 1/4 inches. Edges shall have a minimum radius of 0.01 inch.

2. Type II. Handrails with a perimeter greater than 6 1/4 inches shall have a graspable finger recess area on both sides of the profile. The finger recess shall begin with a distance of 3/4 inch measured vertically from the tallest portion of the profile and achieve a depth of at least 5/16 inch within 7/8 inch to a level that is not less than 1 3/4 inches below the tallest portion of the profile. The minimum width of the handrail above the recess shall be 1 1/4 inches to a maximum of 2 3/4 inches. Edges shall have a minimum radius of 0.01 inches.

3. Type III. Handrails for exterior stairs of an individual dwelling unit may consist of a 1 ½ inch x 3 ½ inch rail mounted in a horizontal position.

R311.7.8 Illumination. All stairs shall be provided with illumination in accordance with Section R303.6.

R311.7.9 Special stairways. Spiral stairways, winder stairways, circular stairways, and bulkhead enclosure stairways shall comply with all requirements of Section R311.7 except as specified below:

R311.7.9.1 Spiral stairways. Spiral stairways are permitted, provided the minimum width shall be 26 inches with each tread having a 7½-inches minimum tread depth at 12 inches from the narrower edge. All treads shall be identical, and the rise shall be no more than 9½ inches. A minimum headroom of 6 feet 6 inches shall be provided.

R311.7.9.2 Circular stairways. Circular and winding stairways shall have a tread depth at a point not more than 12 inches from the side where the treads are narrower of not less than 10 inches and the minimum depth of any tread shall not be less than 7 inches. The largest tread depth shall not exceed the smallest by more than 3/8 inch. (Ord. 19674 §60; February 13, 2012).

20.12.310 Section R312 Amended; Guards.

Section R312 of the International Residential Code is amended to read as follows:

**SECTION R312
GUARDS**

R312.1 Guards. Porches, balconies, ramps or raised floor surfaces located more than 30 inches above the floor or grade below shall have guards not less than 36 inches in height. Open sides of stairs with a total rise of more than 30 inches above the floor or grade below shall have guards not less than 34 inches in height measured vertically from the nosing of the treads. Porches and decks which are enclosed with insect screening shall be equipped with guards where the walking surface is located more than 30 inches above the floor or grade below.

A guard is required when a sidewalk, patio, or driveway is 60 inches or less from an egress window well 30 inches in height or greater.

A guard is required when a sidewalk, patio, or driveway is 30 inches or less from a retaining wall of 30 inches in height or greater to the floor or grade below.

When retaining wall heights are between 30 inches and 60 inches to the floor or grade below, there shall be a distance ratio maintained from the sidewalk, patio, or driveway equal to or greater than the retaining wall height if no guard is to be installed.

R312.2 Guard opening limitations. Required guards on open sides of stairways, raised floor areas, balconies and porches shall have intermediate rails or ornamental closures which do not allow passage of a sphere 5 inches or more in diameter.

Exception: The triangular openings formed by the riser, tread and bottom rail of a guard at the open side of a stairway are permitted to be of such a size that a sphere 6 inches cannot pass through. (Ord. 19674 §61; February 13, 2012).

20.12.315 Section R313 Deleted; Automatic Fire Sprinkler Systems.

Section R313 of the International Residential Code and all subsections thereof are hereby deleted. (Ord. 19674 §62; February 13, 2012).

20.12.320 Section R314.3 Amended; Single- and Multiple-Station Smoke Alarms.

Section R314.3 of the International Residential Code is amended to read as follows:

R314.3 Single- and multiple-station smoke alarms. Single- and multiple-station smoke alarms shall be installed in the following locations:

1. In each sleeping room; and
2. On each story of the dwelling, including basements and cellars but not including crawl spaces and uninhabitable attics. In dwellings or dwelling units with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level.

When more than one smoke alarm is required to be installed within an individual dwelling unit the alarm devices shall be interconnected in such a manner that the actuation of one alarm will

activate all of the alarms in the individual unit. The alarm shall be clearly audible in all bedrooms over background noise levels with all intervening doors closed.

All smoke alarms shall be listed and installed in accordance with the provisions of this code and the household fire warning equipment provisions of NFPA 72. (Ord. 19674 §63; February 13, 2012).

20.12.325 Section R314.4 Amended; Smoke Alarms; Power Source.

Section R314.4 of the International Residential Code is amended to read as follows:

R314.4 Power Source. Smoke alarms shall receive their primary power from the building wiring when such wiring is served from a commercial source, and when primary power is interrupted, shall receive power from a battery. Wiring shall be permanent and without a disconnecting switch other than those required for overcurrent protection. Smoke alarms shall be interconnected.

Exceptions:

1. Smoke alarms shall be permitted to be battery operated when installed in buildings without commercial power.

2. Interconnection and hard-wiring of smoke alarms in existing areas shall not be required where the alterations or repairs do not result in the removal of interior wall or ceiling finishes exposing the structure. (Ord. 19674 §64; February 13, 2012).

20.12.330 Section R315 Amended; Carbon Monoxide Alarms.

Section R315 of the International Residential Code is amended to read as follows:

SECTION R315

CARBON MONOXIDE ALARMS

315.1 Carbon monoxide alarms location. For new construction, additions, and interior alterations requiring a building permit that have an attached garage or fuel-fired appliances, one approved carbon monoxide alarm shall be installed on each floor and located in the immediate vicinity of the bedrooms.

R315.2 Alarm requirements. Single station carbon monoxide alarms shall be listed as complying with UL 2034 and shall be installed in accordance with this code and the manufacturer's installation instructions. A combination smoke alarm and carbon monoxide alarm is permitted. Carbon monoxide detectors are not required to be hardwired or interconnected. (Ord. 19674 §65; February 13, 2012).

20.12.335 Section 317.1 Amended; Protection of Wood and Wood Based Products Against Decay; Location Required.

Section R317.1 of the International Residential Code is amended to read as follows:

R317.1 Location required. Protection of wood and wood based products from decay shall be provided in the following locations by the use of naturally durable wood or wood that is preservative-treated in accordance with AWPA U1 for the species, product, preservative and end use. Preservatives shall be listed in Section 4 of AWPA U1.

1. Wood joists or the bottom of a wood structural floor when closer than 18 inches (457 mm) or wood girders when closer than 12 inches to the exposed ground in crawl spaces or unexcavated area located within the periphery of the building foundation.

2. All wood framing members that rest on concrete or masonry exterior foundation walls and are less than 8 inches from the exposed ground.

3. Sills and sleepers on a concrete or masonry slab that is in direct contact with the ground unless separated from such slab by an impervious moisture barrier.

4. The ends of wood girders entering exterior masonry or concrete walls having clearances of less than 1/2 inch on tops, sides and ends.

5. Wood siding, sheathing and wall framing on the exterior of a building having a clearance of less than 6 inches from the ground or less than 2 inches measured vertically from concrete steps, porch slabs, patio slabs, and similar horizontal surfaces exposed to the weather.

6. Wood structural members supporting moisture-permeable floors or roofs that are exposed to the weather, such as concrete or masonry slabs, unless separated from such floors or roofs by an impervious moisture barrier.

7. Wood furring strips or other wood framing members attached directly to the interior of exterior masonry walls or concrete walls below grade.

8. Bottom sill plates for bearing walls cannot be imbedded in concrete. (Ord. 19674 §66; February 13, 2012).

20.12.340 Section R317.1.2 Deleted; Ground Contact.

Section R317.1.2 of the International Residential Code is hereby deleted. (Ord. 19674 §67; February 13, 2012).

20.12.345 Section R317.1.4 Amended; Wood Columns.

Section R317.1.4 of the International Residential Code is amended to read as follows:

R317.1.4 Wood columns. Wood columns shall be approved wood of natural decay resistance or approved pressure-preservative-treated wood. Posts, poles and columns supporting permanent structures shall bear upon a concrete footing and shall not be imbedded in the concrete or in the ground unless approved for such use.

Exceptions:

1. Columns exposed to the weather or in basements when supported by concrete piers or metal pedestals projecting 1 inch] above a concrete floor or 6 inches above exposed earth and the earth is covered by an approved impervious moisture barrier.

2. Columns in enclosed crawl spaces or unexcavated areas located within the periphery of the building when supported by a concrete pier or metal pedestal at a height more than 8 inches (203mm) from exposed earth and the earth is covered by an impervious moisture barrier. (Ord. 19674 §68; February 13, 2012).

20.12.350 R319 Amended; Premises Identification.

Section R319 of the International Residential Code is amended to read as follows:

R319 Premises identification. Approved numbers or addresses shall be provided for all new buildings in such a position as to be plainly visible and legible from the street or road fronting the property. Premises shall have addresses provided on buildings as specified under Chapter 14.24 of the Lincoln Municipal Code. (Ord. 19674 §69; February 13, 2012).

20.12.355 Section R320 Deleted; Accessibility.

Section R320 of the International Residential Code is hereby deleted. (Ord. 19674 §70; February 13, 2012).

20.12.360 Section R322 Deleted; Flood-Resistant Construction.

Section R322 of the International Residential Code and all subsections thereof are hereby deleted. Lincoln Municipal Code Chapters 27.52 and 27.53 will apply. (Ord. 19674 §71; February 13, 2012).

20.12.365 Section R401.3 Amended; Foundations; Drainage.

R401.3 Drainage. Surface drainage shall be diverted to a storm sewer conveyance or other approved point of collection that does not create a hazard. Lots shall be graded to drain surface water away from foundation walls as per the approved grading and drainage plan. The grade from the foundation shall fall a minimum of 6 inches within the first 10 feet in accordance with Section R401.3. The grade at the property line shall not be changed/altered.

Exception: Where lot lines, walls, slopes or other physical barriers prohibit 6 inches of fall within 10 feet, drains or swales shall be constructed to ensure drainage away from the structure. Impervious surfaces within 10 feet of the building foundation shall be sloped a minimum of 2 percent away from the building. (Ord. 19674 §72; February 13, 2012).

20.12.370 Table R401.4.1 Amended; Load Bearing Values.

Table R401.4.1 of the International Residential Code is amended to read as follows:

**TABLE R401.4.1
PRESUMPTIVE LOAD-BEARING VALUES OF
FOUNDATION MATERIALS^a**

CLASS OF MATERIAL	LOAD-BEARING PRESSURE (pounds per square foot)
Crystalline bedrock	12,000
Sedimentary and foliated rock	4,000
Sandy gravel and/or gravel (GW and GP)	3,000
Sand, silty sand, clayey sand, silty gravel and clayey gravel (SW, SP, SM, SC, GM and GC)	2,000
Clay, sandy clay, silty clay, clayey silt, silt and sandy silt (CL, ML, MH and CH)	2,000

For SI: 1 pound per square foot = 0.0479 kPa.

- a. When soil tests are required by Section R401.4, the allowable bearing capacities of the soil shall be part of the recommendations. (Ord. 19674 §73; February 13, 2012).

20.12.375 Section R403.1 Amended; Footings; General.

Section R403.1 of the International Residential Code is amended to read as follows:

R403.1 General. All exterior walls shall be supported on continuous solid or fully grouted masonry or concrete footings, wood foundations, or other approved structural systems which shall

be of sufficient design to accommodate all loads according to Section R301 and to transmit the resulting loads to the soil within the limitations as determined from the character of the soil. Footings shall be supported on undisturbed natural soils or engineered fill. Slabs and monolithic slabs shall not bear on new fill unless compacted. Concrete footing shall be designed and constructed in accordance with the provisions of Section R403 or in accordance with ACI 332. (Ord. 19674 §74; February 13, 2012).

20.12.380 Section R403.1.1 Amended; Minimum Footing Sizes.

Section R403.1.1 of the International Residential Code is amended to read as follows:

R403.1.1 Minimum size. Minimum sizes for concrete and masonry footings shall be as set forth in Table R403.1 and Figure R403.1(1). The footing width, W, shall be based on the load-bearing value of the soil in accordance with Table R401.4.1. Spread footings shall be at least 8 inches thick. Footing projections, P, shall be at least 2 inches and shall not exceed the thickness of the footing. The size of footings supporting piers and columns shall be based on the tributary load and allowable soil pressure in accordance with Table R401.4.1. Footings for wood foundations shall be in accordance with the details set forth in Section R403.2. (Ord. 19674 §75; February 13, 2012).

20.12.385 Table R403.1 Amended; Minimum Width of Footings.

Table R403.1 of the International Residential Code is amended to read as follows:

TABLE R403.1
MINIMUM WIDTH OF CONCRETE OR
MASONRY FOOTINGS
(inches)^a

	LOAD-BEARING VALUE OF SOIL (psf)		
	2,000	3,000	≥4,000
Conventional light-frame construction			
1-story	12	12	12
2-story	16	12	12
3-story	17	12	12
4-inch brick veneer over light frame or 8-inch hollow concrete masonry			
1-story	12	12	12
2-story	16	12	12
3-story	24	16	12
8-inch solid or fully grouted masonry			
1-story	12	12	12
2-story	21	14	12
3-story	32	21	16

For SI: 1 inch = 25.4 mm, 1 pound per square foot = 0.0479 kPa.

- a. Where minimum footing width is 12 inches, use of a single wythe of solid or fully grouted 12-inch nominal concrete masonry units is permitted. (Ord. 19674 §76; February 13, 2012).

20.12.390 Figure R403.1(1) Amended; Minimum Footing Reinforcement.

Figure R403.1(1) of the International Residential Code is amended as shown on said figure at the end of this chapter. (Ord. 19674 §77; February 13, 2012).

20.12.395 Section R403.1.3.2 Amended; Slabs-on-Ground with Turned-Down Footings.

Section 403.1.3.2 of the International Residential Code is amended to read as follows:

R403.1.3.2 Slabs-on-ground with turned-down footings. Slabs-on-ground with turned-down footings shall have the minimum of one No. 4 bar at the top and the bottom of the footing. (Ord. 19674 §78; February 13, 2012).

20.12.400 Section R403.1.4.1 Amended; Frost Protection.

Section R403.1.4.1 of the International Residential Code is amended to read as follows:

R403.1.4.1 Frost protection. Foundation walls, piers and other permanent supports of buildings and structures shall extend below the frost line specified in Table R301.2.(1).

Exceptions:

1. Protection of freestanding accessory structures with an area of 400 square feet or less, of light-framed construction, with an eave height of 10 feet or less shall not be required.
2. Protection of freestanding accessory structures with an area of 500 square feet or less, of light-framed construction, with an eave height of 10 feet or less shall be allowed to be a monolithic slab as shown in Figure R403.3(1).
3. Decks less than 400 square feet not supported by a dwelling need not be provided with footings that extend below the frost line. (Ord. 19674 §79; February 13, 2012).

20.12.405 Section R403.1.6 Amended; Foundation Anchorage.

Section R403.1.6 of the International Residential Code is amended to read as follows:

R403.1.6 Foundation anchorage. When braced wall panels are supported directly on continuous foundations, the wall wood sill plate or cold-formed steel bottom track shall be anchored to the foundation in accordance with this section.

The wood sole plate at exterior walls on monolithic slabs and wood sill plate shall be anchored to the foundation with anchor bolts spaced a maximum of 6 feet on center. There shall be a minimum of two bolts per plate section with one bolt located not more than 12 inches or less than seven bolt diameters from each end of the plate section. In Seismic Design Categories D₀, D₁ and D₂, anchor bolts shall be spaced at 6 feet on center and located within 12 inches of the ends of each plate section at interior braced wall lines when required by Section R602.10.9 to be supported on a continuous foundation. Bolts shall be at least 1/2 inch in diameter and shall extend a minimum of 7 inches into masonry or concrete. Interior bearing wall sole plates on monolithic slab foundation shall be positively anchored with approved fasteners. A nut and washer shall be tightened on each bolt of the plate. Sills and sole plates shall be protected against decay and termites where required by Sections R318. Cold-formed steel framing systems shall be fastened to the wood sill plates or anchored directly to the foundation as required in Section R505.3.1.

Exceptions:

1. Foundation anchorage, spaced as required to provide equivalent anchorage to 1/2-inch-diameter anchor bolts. "Y" foundation anchor straps are not equivalent.
2. Walls 24 inches total length or shorter connecting offset braced wall panels shall be anchored to the foundation with a minimum of one anchor bolt located in the center third of the plate section and shall be attached to adjacent braced wall panels per Figure R602.12.5 at corners.
3. Walls 12 inches total length or shorter connecting offset braced wall panels shall be permitted to be connected to the foundation without anchor bolts. (Ord. 19674 §80; February 13, 2012).

20.12.410 Section R403.1.7.3 Amended; Foundation Elevation.

Section R403.1.7.3 of the International Residential Code is amended to read as follows:

R403.1.7.3 Foundation elevation. On graded sites, the top of all exterior foundation walls shall be a minimum of 12 inches higher than the finish grade elevation 10 feet from the perimeter of the foundation. The floor of a walkout basement shall be a minimum of 12 inches higher than the grade 10 feet from the foundation. The top of the foundation wall below a daylight window shall be a minimum of 12 inches higher than the finish grade elevation, 10 feet from the perimeter of the foundation. Alternate elevations are permitted subject to the approval of the Building Official, provided it can be demonstrated that required drainage to the point of discharge and away from the structure is provided at all locations on the site. (Ord. 19674 §81; February 13, 2012).

20.12.415 Section R403.3 and Subsections, Tables and Figures Deleted; Frost Protected Shallow Foundations.

Section R403.3 of the International Residential Code and all subsections, tables, and figures under said Section R403.3 are hereby deleted. (Ord. 19674 §82; February 13, 2012).

20.12.420 Section R403.4 Amended; Footings for Precast Concrete Foundations.

Section R403.4 of the International Residential Code is amended to read as follows:

R403.4 Footings for precast concrete foundations. Footings for precast concrete foundations shall be as described in Table 403.1. (Ord. 19674 §83; February 13, 2012).

20.12.425 Section R403.4.1 Deleted; Crushed Stone Footings.

Section 403.4.1 of the International Residential Code is hereby deleted. (Ord. 19674 §84; February 13, 2012).

20.12.430 Table R403.4 Deleted; Minimum Depth of Crushed Stone Footings.

Table 403.4 of the International Residential Code is hereby deleted. (Ord. 19674 §85; February 13, 2012).

20.12.435 Table R404.1.1(1) Deleted; Plain Masonry Foundation Walls.

Table R401.1(1) Of the International Residential Code is hereby deleted. (Ord. 19674 §86; February 13, 2012).

20.12.440 Figure R404.1.1(3) Added; Permanent Masonry Foundation Basement Wall Section.

Figure R401.1.1(3) is added to the International Residential Code as shown on said figure at the end of this chapter. (Ord. 19674 §87; February 13, 2012).

20.12.445 Table R404.1.2 (1) Deleted; Minimum Horizontal Reinforcement for Concrete Basement Walls.

Table R404.1.2(1) of the International Residential Code is hereby deleted. (Ord. 19674 §88; February 13, 2012).

20.12.450 Table R404.1.2(2) Deleted; Minimum Vertical Reinforcement for 6-inch Nominal Flat Concrete Basement Walls.

Table R404.1.2 (2) of the International Residential Code is hereby deleted. (Ord. 19674 §89; February 13, 2012).

20.12.455 Table R404.1.2(3) Deleted; Minimum Vertical Reinforcement for 8-inch Nominal Flat Concrete Basement Walls.

Table R404.1.2(3) of the International Residential Code is hereby deleted. (Ord. 19674 §90; February 13, 2012).

20.12.460 Table R404.1.2(4) Deleted; Minimum Vertical Reinforcement for 10-inch Nominal Flat Concrete Basement Walls.

Table R404.1.2(4) of the International Residential Code is hereby deleted. (Ord. 19674 §91; February 13, 2012).

20.12.465 Table R404.1.2(8) Deleted; Minimum Vertical Reinforcement for 6-, 8-, 10-inch and 12-inch Nominal Flat Basement Walls.

Table R404.1.2(8) of the International Residential Code is hereby deleted. (Ord. 19674 §92; February 13, 2012).

20.12.470 Table 404.1.2 (9) Deleted; Minimum Spacing for Alternate Bar Size and/or Alternate Grade of Steel.

Table R404.1.2(9) of the International Residential Code is hereby deleted. (Ord. 19674 §93; February 13, 2012).

20.12.475 Section R404.1.2.2 Amended; Reinforcement for Foundation Walls.

Section R404.1.2.2 of the International Residential Code is amended to read as follows:

R404.1.2.2 Reinforcement for foundation walls. Concrete foundation walls shall be laterally supported at the top and bottom and vertical reinforcement shall be provided in accordance with Figures R404.1.2.2 (1) through R404.1.2.2(9). (Ord. 19674 §94; February 13, 2012).

20.12.480 Figures R404.1.2.2(1) through R404.1.2.2(9) Added; Reinforcement for Foundation Walls.

Figures R404.1.2.2(1) through R404.1.2.2(9) are added to the International Residential Code as shown on said figures at the end of this chapter. (Ord. 19674 §95; February 13, 2012).

20.12.485 Figure R404.1.2.2.1 Added; Deadman/4 foot Concrete Wall.

Figure R404.1.2.2.1 is added to the International Residential Code as shown on said figure at the end of this chapter. (Ord. 19674 §96; February 13, 2012).

20.12.490 Section 404.1.5.2 Amended; Concrete Wall Thickness.

Section 404.1.5.2 of the International Residential Code is amended to read as follows:

R404.1.5.2 Concrete wall thickness. The thickness of concrete foundation walls shall be equal to or greater than the thickness of the wall in the *story* above. Concrete foundation walls with corbels, brackets or other projections built into the wall for support of masonry veneer or other purposes are not within the scope of the tables in this section.

Where a concrete foundation wall is reduced in thickness to provide a 4-inch shelf for the support of masonry veneer or a bearing ledge for joists, the reduced thickness of the wall shall not be less than 6 inches. Vertical reinforcement shall be based on the thickness of the thinner portion of the wall.

Exception: Where the height of the reduced thickness portion measured to the underside of the floor assembly or sill plate above is less than or equal to 24 inches and the reduction in thickness does not exceed 4 inches, the vertical reinforcement is permitted to be based on the thicker portion of the wall. (Ord. 19674 §97; February 13, 2012).

20.12.495 Figure 404.1.5.2 Added; Garage Stub Wall Foundation Detail.

Figure 404.1.5.2 is added to the International Residential Code as shown on said figure at the end of this chapter. (Ord. 19674 §98; February 13, 2012).

20.12.500 Section R408.7 Deleted; Flood Resistance.

Section R408.7 of the International Residential Code is hereby deleted. (Ord. 19674 §99; February 13, 2012).

20.12.505 Section R502.2.3 Amended; Deck Lateral Load Connection.

Section R502.2.3 of the International Residential Code is amended to read as follows:

R502.2.2.3 Deck lateral load connection. The lateral load connection required by Section R502.2.2 shall be permitted to be in accordance with Figure R502.2.2.3. Hold-down tension devices shall be installed in not less than two locations per deck, and each device shall have an allowable stress design capacity of not less than 1,500 pounds.

Exception: Hold down tension devices shall not be required when a 2x4 diagonal brace is installed on the underside of the floor joist, tying all joists together, including the ledger. (Ord. 19674 §100; February 13, 2012).

20.12.510 Section R502.3 Amended; Allowable Joist Spans.

Section R502.3 of the International Residential Code is amended to read as follows:

R502.3 Allowable joist spans. Spans for floor joists shall be in accordance with Table R502.3.1(2). For other grades and species and for other loading conditions, refer to the AF&PA Span Tables for Joists and Rafters.

R502.3.1 Sleeping areas and attic joists; Deleted.

R502.3.2 Other floor joists; Deleted.

R502.3.3 Floor cantilevers; Deleted.

Table R502.3.1(1) Floor Joist Spans for Common Lumber Species, 30 psf; Deleted.

Table 502.3.3(1) Cantilever Spans for Floor Joists Supporting Light-Frame Exterior Bearing Wall and Roof Only; Deleted.

Table 502.3.3(2) Cantilever Spans for Floor Joists Supporting Exterior Balcony; Deleted. (Ord. 19674 §101; February 13, 2012).

20.12.515 Section R502.7 Amended; Lateral Restraint at Supports.

Section R502.7 of the International Residential Code is amended to read as follows:

R502.7 Lateral restraint at supports. Joists shall be supported laterally at the ends by full-depth solid blocking not less than 2 inches nominal in thickness; or by attachment to a header, band, or rim joist, or to an adjoining stud, or the floor sheathing and interior bearing partitions; or shall be otherwise provided with lateral support to prevent rotation.

Exception: Trusses, structural composite lumber, structural glued-laminated members and I-joists shall be supported laterally as required by the manufacturer's recommendations.

R502.7.1 Bridging. Joists exceeding a nominal 2 by 8 inches shall be supported laterally by solid blocking, diagonal bridging (wood or metal), or a continuous 1-inch-by-3-inch strip nailed across the bottom of the joists perpendicular to joists at intervals not to exceed 8 feet. Dimensional lumber shall be supported laterally by solid blocking, diagonal bridging (wood or metal), or a continuous 1-inch-by-3-inch strip nailed across the bottom of joists perpendicular to joists at intervals not exceeding 8 feet.

Exception: Trusses, structural composite lumber, structural glued-laminated members and I-joists shall be supported laterally as required by the manufacturer's recommendations. (Ord. 19674 §102; February 13, 2012).

20.12.520 Section R502.10 Amended; Framing of Openings.

Section R502.10 of the International Residential Code is amended to read as follows:

R502.10 Framing of openings. Openings in floor framing shall be framed with a header and trimmer joists. When the header joist span does not exceed 4 feet, the header joist may be a single member the same size as the floor joist. Single trimmer joists may be used to carry a single header joist that is located within 3 feet of the trimmer joist bearing. When the header joist span exceeds 4 feet, the trimmer joists and the header joist shall be doubled and of sufficient cross section to support the floor joists framing into the header. Approved hangers shall be used for the header joist to trimmer joist connection. Tail joists over 12 feet long shall be supported at the header by framing anchors or on ledger strips not less than 2 inches by 2 inches. (Ord. 19674 §103; February 13, 2012).

20.12.525 Section R601.3 Amended; Vapor Retarders.

Section R601.3 of the International Residential Code is amended to read as follows:

R601.3 Vapor retarders. Class I or II vapor retarders are not permitted on the interior side of framed walls. (Ord. 19674 §104; February 13, 2012).

20.12.530 Figure R602.10.3.5 Added; Alternate Braced Wall Panel at Garage Door Openings.

Figure R602.10.3.5 is added to the International Residential Code as shown on said figure at the end of this chapter. (Ord. 19674 §105; February 13, 2012).

20.12.535 Figure R602.10.4 Added; Braced Walls Using Continuous OSB Sheathing.

Figure R602.10.3.5 is added to the International Residential Code as shown on said figure at the end of this chapter. (Ord. 19674 §106; February 13, 2012).

20.12.540 Section R703.1 Amended; Exterior Covering; General.

Section R703.1 of the International Residential Code is amended to read as follows:

R703.1 General. To promote building durability, exterior walls shall provide the building with a weather-resistant exterior wall envelope. The exterior wall envelope shall include flashing as described in Section R703.8. The envelope shall provide proper integration of flashings with the WRB and the exterior veneer. These components, in conjunction, shall provide a means of draining water that enters the assembly to the exterior.

Exterior walls shall provide the building with a weather-resistant exterior wall envelope. The exterior wall envelope shall include flashing as described in Section R703.8. The exterior wall envelope shall be designed and constructed in such a manner as to prevent the accumulation of water within the wall assembly by providing a water-resistive barrier behind the exterior veneer as required by Section R703.2.

Any deteriorated or rotting veneer shall be removed prior to installing new veneer. An approved weather barrier shall be installed prior to overlaying with a new veneer product. (Ord. 19674 §107; February 13, 2012).

20.12.545 Section R703.2 Amended; Water Resistive Barrier.

Section R703.2 of the International Residential Code is amended to read as follows:

R703.2 Water-resistive barrier. One layer of water-resistive barrier, (WRB) free from holes, complying with ASTM E2556 for type II WRB shall be applied over sheathing of all exterior walls. Such WRB shall be applied horizontally, with the upper layer lapped over the lower layer not less than 2 inches. Where vertical joints occur, the WRB shall be lapped not less than 6 inches. The WRB shall be continuous to the top of walls and terminated at penetrations and building appendages in a manner to meet the requirements of the exterior wall envelope as described in Section R703.1.

Manufactured and natural adhered masonry veneer and stucco shall be installed over an approved rain screen (drainage system) that has a minimum depth of 1/8 inch. The 1/8 inch space shall be formed by the use of any non-corrodible furring strip, drainage mat or drainage board. A water-resistant barrier shall be installed between the rain screen and the wall sheathing. Flashing shall be installed in accordance with Section R703.8. No. 15 asphalt shall not be permitted as a water-resistant barrier for adhered veneer and stucco.

Exceptions:

1. A space is not required where the exterior veneer is installed with a second WRB complying with Section R703.2 which is manufactured in a manner to enhance drainage and meets the 75% efficiency drainage requirement of ASTM E2273, ICC-ES, AC24, ICC-ES, AC235 or other recognized national standards and is installed over a WRB complying with Section 703.2.

2. The water-resistive barrier for detached accessory buildings less than 120 square foot is not required. (Ord. 19674 §108; February 13, 2012).

20.12.550 Section R703.6.3 Amended; Water-Resistive Barriers.

Section R703.6.3 of the International Residential Code is amended to read as follows:

R703.6.3 Water-resistive barriers. A water-resistive barrier shall be installed as required in Section R703.2 with an approved rain screen (drainage system) that has either a minimum depth of 1/8 inch or has an average minimum drainage efficiency of 90 percent when tested in accordance with ASTM E 2271. The WRB shall be installed between the rain screen and the wall sheathing. Flashing shall be installed in accordance with Section R703.8. No. 15 asphalt shall not be permitted as a water-resistant barrier. (Ord. 19674 §109; February 13, 2012).

20.12.555 Table R703.7.3.1 Deleted; Allowable Spans for Lintels Supporting Masonry Veneer.

Table R703.7.3.1 of the International Residential Code is hereby deleted. (Ord. 19674 §110; February 13, 2012).

20.12.560 Section R703.7.3 Deleted; Lintels.

Section R703.7.3 of the International Residential Code is hereby deleted. (Ord. 19674 §111; February 13, 2012).

20.12.565 Section R703.7.4 Amended; Anchorage.

Section R703.7.4 of the International Residential Code is amended to read as follows:

R703.7.4 Anchors, supports and ties shall be noncombustible and corrosion resistant. When the terms “corrosion resistant” or “noncorrosive” are used in this section, they shall mean having a corrosion resistance equal to or greater than a hot-dipped galvanized coating of 1.5 ounces of zinc per square foot (458 g/m²) of surface area. When an element is required to be corrosive resistant or

noncorrosive, all of its parts, such as screws, nails, wire, dowels, bolts, nuts, washers, shims, anchors, ties and attachments, shall be corrosion resistant. (Ord. 19674 §112*).

20.12.570 Section R703.7.4.2 Deleted; Air Space.

Section R703.4.2 of the International Residential Code is hereby deleted. (Ord. 19674 §113 February 13, 2012).

20.12.575 Figure R703.7 Deleted; Masonry Veneer Wall Details.

Figure R703.7 of the International Residential Code is hereby deleted. (Ord. 19674 §114; February 13, 2012).

20.12.580 R703.7.5 Amended; Flashing.

Section R703.7.5 of the International Residential Code is amended to read as follows:

R703.7.5 Flashing. Flashing shall be located beneath the first course of masonry above finished ground level above the foundation wall or slab and at other points of support, including structural floors, shelf angles and lintels when masonry veneers are designed in accordance with Section R703.7. See Section R703.8 for additional requirements.

Exception: The requirements of R703.7.5 may be deleted if a poured concrete foundation is used with a minimum 8-inch brickledge drop and all exterior window and door openings are caulked with sealant. (Ord. 19674 §115; February 13, 2012).

20.12.585 Section R703.7.6 Amended; Weepholes.

Section R703.7.6 of the International Residential Code is amended to read as follows:

R703.7.6 Weepholes. Weepholes shall be provided in the outside wythe of masonry walls at a maximum spacing of 33 inches on center. Weepholes shall not be less than 3 /16 inch in diameter. Weepholes shall be located immediately above the flashing.

Exception: The requirements of R703.7.6 may be deleted if a poured concrete foundation is used with a minimum 8-inch brickledge drop and all exterior window and door openings are flashed per 703.8 amended. (Ord. 19674 §116; February 13, 2012).

20.12.590 Section R703.8 Amended; Flashing.

Section R703.8 of the International Residential Code is amended to read as follows:

R703.8 Flashing. Approved corrosion-resistive flashing shall be provided in the exterior wall envelope in such a manner as to prevent entry of water into the wall cavity or penetration of water to the building structural framing components. The flashing shall extend to the surface of the exterior wall finish and shall be installed to prevent water from reentering the exterior wall envelope. Approved corrosion-resistant flashings shall be installed at all of the following locations:

1. At top of all exterior window and door openings in such a manner as to be leakproof.
2. At the intersection of chimneys or other masonry construction with frame or stucco walls, with projecting lips on both sides under stucco copings.
3. Under and at the ends of masonry, copings and sills.
4. Continuously above all projecting wood or composite trim.
5. Where exterior porches, decks or stairs attach to a wall or floor assembly of wood-frame construction.
6. At wall and roof intersections.

7. At built-in gutters.

Exceptions:

1. The requirements of subparagraph 3 above may be deleted if a poured concrete foundation is used with a minimum 8-inch brickledge drop.
2. The requirements of subparagraph 3 above may be deleted where soffits serve as protection for the upper course of brick veneer. (Ord. 19674 §117; February 13, 2012).

20.12.595 Section R703.9.2.1 Amended; Water-Resistive Barrier.

Section R703.9.2.1 of the International Residential Code is amended to read as follows:

R703.9.2.1 The water-resistive barrier shall comply with Section R703.2 or ASTM E 2570. No. 15 asphalt shall not be permitted as a water-resistive barrier. (Ord. 19674 §118; February 13, 2012).

20.12.600 Section R703.9.2.2 Amended; Installation.

Section R703.9.2.2 of the International Residential Code is amended to read as follows:

R703.9.2.2 Installation: The water-resistive barrier shall be applied between the drainage system and the wall sheathing as per 703.6.3. (Ord. 19674 §119; February 13, 2012).

20.12.605 Section R703.12.1 Added; Water-Resistive Barrier; Adhered Masonry Veneer.

Section R703.12.1 is added to the International Residential Code to read as follows:

R703.12.1 Water-resistive barrier. A water-resistive vapor-permeable barrier complying with ASTM E2556 for Type II water-resistive barrier shall be installed as required in Section R703.2 with an approved rain screen (drainage system) that has either a minimum depth of 1/8 inch or has an average minimum drainage efficiency of 90 percent when tested in accordance with ASTM E 2273. The WRB shall be installed between the rain screen and the wall sheathing. Flashing shall be installed in accordance with Section R703.8. No. 15 asphalt shall not be permitted as a water-resistant barrier. (Ord. 19674 §120; February 13, 2012).

20.12.610 Section R802.3 Amended; Framing Details.

Section R802.3 of the International Residential Code is amended to read as follows:

R802.3 Framing details. Rafters shall be framed to ridge board or to each other with a gusset plate as a tie. Ridge board shall be at least 1-inch nominal thickness and not less in depth than the cut end of the rafter. At all valleys and hips there shall be a valley or hip rafter not less than 2-inch nominal thickness and not less in depth than the cut end of the rafter. Hip and valley rafters shall be supported at the ridge by a brace to a bearing partition or be designed to carry and distribute the specific load at that point. Where the roof pitch is less than three units vertical in 12 units horizontal (25-percent slope), structural members that support rafters and ceiling joists, such as ridge beams, hips and valleys, shall be designed as beams.

A roof that is over framed on a lower roof shall bear on a ledger board. The ledger board shall be a minimum of 2x6 inches and shall be located on the inside of the heel cut. On existing roofs the roof covering shall be removed to allow the ledger board to bear on the roof sheathing and rafters. The framed roof shall comply with R802.11. (Ord. 19674 §121; February 13, 2012).

20.12.620 Section R905.2.7.1 Amended; Ice Barrier.

Section R905.2.7.1 of the International Residential Code is amended to read as follows:

R905.2.7.1 Ice barrier; conditioned floor area. In areas where there has been a history of ice forming along the eaves causing a backup of water as designated in Table R301.2(1), an ice barrier that consists of a least two layers of underlayment cemented together or of a self-adhering polymer modified bitumen sheet or other method approved by the Building Official, shall be used in lieu of normal underlayment and extend from the lowest edges of all roof surfaces to at least 36 inches.

Exceptions:

1. The ice barrier may be omitted when a raised heel truss or other framing method provides space for a minimum of R-38 attic insulation along the exterior wall.
 2. The ice barrier may be omitted for attached garages and detached accessory structures that contain no conditioned floor area.
- (Ord. 19674 §122; February 13, 2012).

20.12.625 Section R907.3 Amended; Reroofing; Recovering Versus Replacement.

Section R907.3 of the International Residential Code is amended to read as follows:

R907.3 Recovering versus replacement. New roof coverings shall not be installed without first removing existing roof coverings where any of the following conditions occur:

1. Where the existing roof or roof covering is water-soaked or has deteriorated to the point that the existing roof or roof covering is not adequate as a base for additional roofing.
2. Where the existing roof covering is wood shake, slate, clay, cement or asbestos-cement tile.
3. Where the existing roof has two or more applications of any type of roof covering.

Exception: The application of new protective coating over existing spray polyurethane foam roofing systems shall be permitted without tear-off of existing roof covering. (Ord. 19674 §123; February 13, 2012).

20.12.630 Section R1003.11 Deleted; Masonry Chimneys; Flue Lining (Material).

Section R1003.11 of the International Residential Code is hereby deleted. (Ord. 19674 §124; February 13, 2012).

20.12.635 Section R1003.11.2 Deleted; Flue Linings for Specific Appliances.

Section R1003.11.2 of the International Residential Code is hereby deleted. (Ord. 19674 §125; February 13, 2012).

20.12.640 Section R1003.11.3 Deleted; Gas Appliances.

Section R1003.11.3 of the International Residential Code is hereby deleted. (Ord. 19674 §126; February 13, 2012).

20.12.645 Section R1003.11.4 Amended; Pellet Fuel-Burning Appliances.

Section R1003.11.4 of the International Residential Code is amended to read as follows:

R1003.11.4 Pellet fuel-burning appliances. Flue lining and vent systems for use in masonry chimneys with pellet fuel-burning appliances shall be limited to the following:

1. Flue lining systems complying with Section R1003.11.1.

2. Pellet vents listed for installation within masonry chimneys. (See Section R1003.11.6 for marking.) (Ord. 19674 §127; February 13, 2012).

20.12.650 Section R1003.11.5 Deleted. Oil-fired Appliances.

Section R1003.11.5 of the International Residential Code is hereby deleted. (Ord. 19674 §128; February 13, 2012).

20.12.655 Section R1003.14 Deleted; Flue Area (Appliance).

Section R1003.14 of the International Residential Code is hereby deleted. (Ord. 19674 §129; February 13, 2012).

20.12.660 Section R1004.4 Deleted; Unvented Gas Log Heaters.

Section R1004.4 of the International Residential Code is hereby deleted. (Ord. 19674 §130; February 13, 2012).

20.12.665 Chapter 11 Amended; Energy Code.

Chapter 11 of the International Residential Code is amended to read as follows:

**CHAPTER 11
ENERGY CODE**

SECTION 1100 – PURPOSE OF ENERGY CODE.

The purpose of this chapter is to provide minimum design requirements and criteria that will result in a more efficient utilization of energy by providing thermal design and insulation standards for building construction.

SECTION 1101 - ENERGY CODE - APPLICATION AND SCOPE.

1101.1 General. The requirements of the Nebraska Energy Code, *Neb. Rev. Stat.* §§ 81-1611 through 81-1626, shall apply to all new single and two-family dwellings or portions thereof which are heated and/or mechanically cooled. (Ord. 19674 §131; February 13, 2012).

20.12.670 Chapters 19 through 22 and 24 through 42 of the International Residential Code Deleted.

Chapters 19, 20, 21, 22, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, and 42 of the International Residential Code are hereby deleted. (Ord. 19674 §132; February 13, 2012).

[FIGURES REFERRED TO WITHIN THIS CHAPTER FOLLOW]